

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: February 2, 2005, 18:23:01 ; Search time 149 Seconds
(without alignments)
785.623 Million cell updates/sec

Title: US-10-613-413B-8
Perfect score: 1717
Sequence: 1 MTPSPLLLLPPLLLGAFP.....VLPTGDVWSRPDGSYLNKPL 324

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1608061 segs, 361289386 residues

Total number of hits satisfying chosen parameters: 1608061

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*

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20: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	1707	99.4	472	9	US-09-815-108-5
3	1707	99.4	472	14	US-10-229-584-5
4	1707	99.4	504	9	US-09-758-386-2
5	1707	99.4	504	9	US-09-815-108-8
6	1707	99.4	504	9	US-09-815-108-15
7	1707	99.4	504	9	US-09-815-108-17
8	1707	99.4	504	9	US-09-815-108-19
9	1707	99.4	504	9	US-09-989-722-119
10	1707	99.4	504	9	US-09-989-723-119
11	1707	99.4	504	9	US-09-989-279-119
12	1707	99.4	504	9	US-09-989-727-119
13	1707	99.4	504	9	US-09-989-731-119

14	1707	99.4	504	9	US-09-989-732-119	Sequence 119, App
15	1707	99.4	504	9	US-09-991-073-119	Sequence 119, App
16	1707	99.4	504	9	US-09-990-442-119	Sequence 119, App
17	1707	99.4	504	9	US-09-991-163-119	Sequence 119, App
18	1707	99.4	504	9	US-09-993-604-119	Sequence 119, App
19	1707	99.4	504	9	US-09-990-456-119	Sequence 119, App
20	1707	99.4	504	9	US-09-989-721-119	Sequence 119, App
21	1707	99.4	504	9	US-09-992-598-119	Sequence 119, App
22	1707	99.4	504	9	US-09-989-293A-119	Sequence 119, App
23	1707	99.4	504	9	US-09-989-735-119	Sequence 119, App
24	1707	99.4	504	9	US-09-990-444-119	Sequence 119, App
25	1707	99.4	504	9	US-09-991-181-119	Sequence 119, App
26	1707	99.4	504	9	US-09-989-730-119	Sequence 119, App
27	1707	99.4	504	9	US-09-990-436-119	Sequence 119, App
28	1707	99.4	504	9	US-09-993-687-119	Sequence 119, App
29	1707	99.4	504	10	US-09-989-734-119	Sequence 119, App
30	1707	99.4	504	10	US-09-997-653-119	Sequence 119, App
31	1707	99.4	504	10	US-09-989-724-119	Sequence 119, App
32	1707	99.4	504	10	US-09-993-667-119	Sequence 119, App
33	1707	99.4	504	10	US-09-990-441-119	Sequence 119, App
34	1707	99.4	504	10	US-09-993-667-119	Sequence 119, App
35	1707	99.4	504	10	US-09-997-428-119	Sequence 119, App
36	1707	99.4	504	10	US-09-997-466-119	Sequence 119, App
37	1707	99.4	504	10	US-09-990-438-119	Sequence 119, App
38	1707	99.4	504	10	US-09-990-562-119	Sequence 119, App
39	1707	99.4	504	10	US-09-796-753-94	Sequence 94, Appl
40	1707	99.4	504	10	US-09-796-753-108	Sequence 108, App
41	1707	99.4	504	10	US-09-990-711-119	Sequence 119, App
42	1707	99.4	504	10	US-09-989-726-119	Sequence 119, App
43	1707	99.4	504	10	US-09-998-156-119	Sequence 119, App
44	1707	99.4	504	10	US-09-990-437-119	Sequence 119, App
45	1707	99.4	504	10	US-09-991-157-119	Sequence 119, App

ALIGNMENTS

RESULT 1
US-10-613-413A-49
; Sequence 49, Application US/10613413A
; Publication No. US20040058849A1
; GENERAL INFORMATION:
; APPLICANT: Sleeman, Matthew
; APPLICANT: Muriison, Greg
; TITLE OF INVENTION: Fibroblast Growth Factor Receptors and Methods for Their Use
; FILE REFERENCE: 11000.1037c5
; CURRENT APPLICATION NUMBER: US/10/613, 413A
; CURRENT FILING DATE: 2003-07-03
; PRIOR APPLICATION NUMBER: U.S. 09/823, 038
; PRIOR FILING DATE: 2001-03-28
; PRIOR APPLICATION NUMBER: U.S. 09/383, 586
; PRIOR FILING DATE: 1999-08-26
; PRIOR APPLICATION NUMBER: U.S. 09/276, 268
; PRIOR FILING DATE: 1999-03-25
; PRIOR APPLICATION NUMBER: PCT/NZ00/00015
; PRIOR FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: U.S. 60/221, 216
; PRIOR FILING DATE: 2000-07-25
; PRIOR APPLICATION NUMBER: U.S. 10/157, 444
; PRIOR FILING DATE: 2000-05-28
; PRIOR APPLICATION NUMBER: PCT/NZ03/00105
; PRIOR FILING DATE: 2003-05-27
; NUMBER OF SEQ ID NOS: 145
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 49
; LENGTH: 357
; TYPE: PRT
; ORGANISM: Human
; US-10-613-413A-49

Query Match 99.4%; Score 1707; DB 15; Length 357;
Best Local Similarity 99.7%; Pred. No. 4.1e-108; Indels 0; Gaps 0;
Matches 323; Conservative 0; Mismatches 1;

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RESULT 2
US-09-815-108-5
; Sequence 5, Application US/09815108
; Patent No. US20020009776A1
; GENERAL INFORMATION:
; APPLICANT: Saris, Christiaan M.
; APPLICANT: Sharon, Mu X.
; APPLICANT: Xia, Min
; APPLICANT: Boone, Thomas Charles
; APPLICANT: Covey, Todd
; TITLE OF INVENTION: Fibroblast Growth Factor Receptor-Like Molecules and
; TITLE OF INVENTION: Uses Thereof
; FILE REFERENCE: 99-513-A
; CURRENT APPLICATION NUMBER: US/09/815,108
; CURRENT FILING DATE: 2001-03-22
; PRIOR APPLICATION NUMBER: 60/191,379
; PRIOR FILING DATE: 2000-03-22
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 472
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-815-108-5

Query Match          99.4%; Score 1707; DB 9; length 472;
Best Local Similarity 99.7%; Pred. No. 5.5e-108;
Matches 323; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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DB      1  MTPSPLLLLLLPPLLGAFPAAARGPCKMADKVVPROVARLGRVRLQCPVEGDPPL 60

QY      61  TMWTKDGRTIHSGWSRFRVLPQGLKVKQVEREDAGVYVCATNGFGLSVNYTLVVLDDI 120
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DB      61  TMWTKDGRTIHSGWSRFRVLPQGLKVKQVEREDAGVYVCATNGFGLSVNYTLVVLDDI 120

QY      121  SPGESLGPDDSSSGGQEDPASQOWARPRFTQPSKMRRRVIAIPVGSSVRLKCVASGHPRP 180
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QY      181  DITWTKDDQALTRPEAAEPRKKKWTLSLKNLRPEDSGKTCRVSNRAGAINATYKVDVIQ 240
      |||||||
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QY      241  RTRSKPVLGTGTHPVNTVDEGGTTSFOCKVRSDVKPVIQWLKRVYGAEGRHNSTIDVGG 300
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Db 241 RTRSKPVLGTGHPVNTTVDGEGTTSFQCKVRSDVKPVITQMLKRVETGAGRRNSTIDVG 300

Qy 301 QKEVVLPTGADVMSRPDGSYLNKPL 324

Db 301 QKEVVLPTGADVMSRPDGSYLNKLL 324

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RESULT 3
US-10-229-584-5
; Sequence 5, Application US/10229584
; Publication No. US20030087384A1
; GENERAL INFORMATION:
; APPLICANT: Saris, Christiaan M.
; APPLICANT: Sharon, Mu X.
; APPLICANT: Xia, Min
; TITLE OF INVENTION: Fibroblast Growth Factor Receptor-Like Molecules and
; TITLE OF INVENTION: Uses Thereof
; FILE REFERENCE: 99-513-F
; CURRENT APPLICATION NUMBER: US/10/229,584
; CURRENT FILING DATE: 2002-08-28
; PRIOR APPLICATION NUMBER: 09/815,108
; PRIOR FILING DATE: 2001-03-22
; PRIOR APPLICATION NUMBER: 60/191,379
; PRIOR FILING DATE: 2000-03-22
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 472
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-229-584-5

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Query Match	99.4%;	Score 1707;	DB 14;	Length 472;
Best Local Similarity	99.7%;	Pred. No. 5.5e-108;		
Matches 323;	Conservative 0;	Mismatches 1;	Indels 0;	Gaps 0;
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Db 61	TMWTKDGRTHSGWSRFRVLPGQLKVKQVEREDAGVYCKATNGFGLSVNYTLVLLDDI	120		
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Db 121	SPGESLGPSSSGGEDPASQOWARPRFTQPSKMRRIARIPVSSVRLKCVASGHRP	180		
QY 181	DITWMDQDALTREPAEAPRKKKWTLSLKNLRPEDSGKTCRVSNRAGAINATYKKVDVIQ	240		
Db 181	DITWMDQDALTREPAEAPRKKKWTLSLKNLRPEDSGKTCRVSNRAGAINATYKKVDVIQ	240		
QY 241	RTRSKPVLTGTHPVNTTVDGCGTTSFQCKVRSQVPIQMLKREYGAEGRHNSTIDVGG	300		
Db 241	RTRSKPVLTGTHPVNTTVDGCGTTSFQCKVRSQVPIQMLKREYGAEGRHNSTIDVGG	300		
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Db 301	QKFVVLPTGDVWSRPDGSYLKPL	324		

RESULT 4

US-09-758-386-2

Sequence 2, Application US/09758386

Patent No. US20010016335A1

GENERAL INFORMATION:

APPLICANT: Human Genome Sciences, Inc. et al.

TITLE OF INVENTION: Fibroblast Growth Factor Receptor-5

FILE REFERENCE: PF486PCT

CURRENT APPLICATION NUMBER: US/09/758,386

CURRENT FILING DATE: 2001-01-12

PRIOR APPLICATION NUMBER: 09/293,182

PRIOR FILING DATE: 1999-04-16

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RESULT 7

US-09-815-108-17
; Sequence 17, Application US/09815108
; Patent No. US20020009776A1
; GENERAL INFORMATION:
; APPLICANT: Saris, Christiaan M.
; APPLICANT: Sharon, Mu X.
; APPLICANT: Xia, Min
; APPLICANT: Boone, Thomas Charles
; APPLICANT: Covey, Todd
; TITLE OF INVENTION: Fibroblast Growth Factor Receptor-Like Molecules and
; TITLE OF INVENTION: Uses Thereof
; FILE REFERENCE: 99-513-A
; CURRENT APPLICATION NUMBER: US/09/815,108
; CURRENT FILING DATE: 2001-03-22
; PRIOR APPLICATION NUMBER: 60/191,379
; PRIOR FILING DATE: 2000-03-22
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 17
; LENGTH: 504
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-815-108-17

Query Match 99.4%; Score 1707; DB 9; Length 504;
Best Local Similarity 99.7%; Pred. No. 5.9e-108;
Matches 323; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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QY 301 QKFVVLPTGDVWSRPDGSYLNKPL 324
Db 301 QKFVVLPTGDVWSRPDGSYLNKLL 324

RESULT 8

US-09-815-108-19
; Sequence 19, Application US/09815108
; Patent No. US20020009776A1
; GENERAL INFORMATION:
; APPLICANT: Saris, Christiaan M.
; APPLICANT: Sharon, Mu X.
; APPLICANT: Xia, Min
; APPLICANT: Boone, Thomas Charles
; APPLICANT: Covey, Todd
; TITLE OF INVENTION: Fibroblast Growth Factor Receptor-Like Molecules and
; TITLE OF INVENTION: Uses Thereof
; FILE REFERENCE: 99-513-A
; CURRENT APPLICATION NUMBER: US/09/815,108
; CURRENT FILING DATE: 2001-03-22

; PRIOR APPLICATION NUMBER: 60/191,379
; PRIOR FILING DATE: 2000-03-22
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 19
; LENGTH: 504
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-815-108-19

Query Match 99.4%; Score 1707; DB 9; Length 504;
Best Local Similarity 99.7%; Pred. No. 5.9e-108;
Matches 323; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Db 61 TMWTKDGRTHSGWSRFRVLPQGLKVQVEREDAGVYVCKATNGFGLSVNYTLVLLDDI 120
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Db 121 SPGESLGPSSSGQEDPASQOWARPRFTQPSKMRRIARPVGSSVRLKCVASGHPRP 180
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Db 181 DITWMDQALTRPEAAEPRKKWTLSLKNLRPEBSGKYTCRVSNRAGAINATYKVDVIQ 240
QY 241 RTRSKPVLGTGHPVNTVDFEGGTSFQCKVRSVDKPVIOWLKRVEYGAEGRHNSTIDVG 300
Db 241 RTRSKPVLGTGHPVNTVDFEGGTSFQCKVRSVDKPVIOWLKRVEYGAEGRHNSTIDVG 300
QY 301 QKFVVLPTGDVWSRPDGSYLNKPL 324
Db 301 QKFVVLPTGDVWSRPDGSYLNKLL 324

RESULT 9

US-09-989-722-119
; Sequence 119, Application US/09989722
; Patent No. US20020072067A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey J.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2730P1C63
; CURRENT APPLICATION NUMBER: US/09/989,722
; CURRENT FILING DATE: 2001-11-19


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; PRIOR APPLICATION NUMBER: 60/090862
; PRIOR FILING DATE: 1998-06-26
; PRIOR APPLICATION NUMBER: 60/090863
; PRIOR FILING DATE: 1998-06-26
; PRIOR APPLICATION NUMBER: 60/091360
; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091478
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091544
; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091519
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091626
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091633
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091978
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09
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Query Match          99.4%; Score 1707; DB 9; Length 504;
Best Local Similarity 99.7%; Pred. No. 5.9e-108;
Matches 323; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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Db      1 MTPSPLLLLLPPLLGAFPAPAAARGPMPKMDKVVPRÖVARLGRTVRLÖCPVEGDPPL 60

QY      61 TMTWKDGRTHSGWSRFRVLPÖGLKVÖVEREDAGVYVCKATNGFGLSVNTLVLDI 120
Db      61 TMTWKDGRTHSGWSRFRVLPÖGLKVÖVEREDAGVYVCKATNGFGLSVNTLVLDI 120

QY      121 SPGKESIGPSSSGQEDPASQÖWARPRFTÖPSKMRRIARPVGSSVRLKCVASGHPRP 180
Db      121 SPGKESIGPSSSGQEDPASQÖWARPRFTÖPSKMRRIARPVGSSVRLKCVASGHPRP 180

QY      181 DITWMKDDÖALTRPEAAERPKKWTLSLKNLRPEDSGKYTCRVSNRAGAINATYKVDVIÖ 240
Db      181 DITWMKDDÖALTRPEAAERPKKWTLSLKNLRPEDSGKYTCRVSNRAGAINATYKVDVIÖ 240

QY      241 RTRSKPVLTGTHPVNTYVDFGTTSFÖCKVRSVDKPVIOMLKRVGYGAEGRNSTIDVG 300
Db      241 RTRSKPVLTGTHPVNTYVDFGTTSFÖCKVRSVDKPVIOMLKRVGYGAEGRNSTIDVG 300

QY      301 ÖKFVVLPTGVDWSRPPDGYLKNPL 324
Db      301 ÖKFVVLPTGVDWSRPPDGYLKNPL 324
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RESULT 10
US-09-989-723-119
; Sequence 119, Application US/09989723
; Patent No. US20020072092A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
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; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730P1C62
; CURRENT APPLICATION NUMBER: US/09/989,723
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
; PRIOR FILING DATE: 1997-11-12
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066770
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/075945
; PRIOR FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/083322
; PRIOR FILING DATE: 1998-04-28
; PRIOR APPLICATION NUMBER: 60/084600
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/087106
; PRIOR FILING DATE: 1998-05-28
; PRIOR APPLICATION NUMBER: 60/087607
; PRIOR FILING DATE: 1998-06-02
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;; PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1707; DB 9; Length 504;
Best Local Similarity 99.7%; Pred. No. 5.9e-108;
Matches 323; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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QY 181 DITWMDQALTRPEAAEPRKKWTLSLKNLRPEDSGKTCRVSNRAGAINATYKVDVIQ 240
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QY 301 QKFVVLPTGDVWSRPDGSYLNKPL 324
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RESULT 11
US-09-989-279-119
Sequence 119, Application US/09989279
Patent No. US20020072496A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
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APPLICANT: Kljavin, Ivar J.
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APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730P1C56
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; Patent No. US20020072497A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
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?	PRIOR FILING DATE: 1998-07-09

Query Match	99.4%	Score 1707;	DB 9;	Length 504;
Best Local Similarity	99.7%	Pred. No. 5.9e-108;		
Matches 323; Conservative	0;	Mismatches 1;	Indels 0;	Gaps 0;

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QY 181 DITWMDQALTRPEAEPRKKWTLSLKRLPEDSGKYTCRVSNRAGAINATYKVDVIO 240
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US-09-989-731-119
; Sequence 119, Application US/09989731
; Patent No. US20020103125A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Deanoys, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
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; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730P1C70
; CURRENT APPLICATION NUMBER: US/09/989, 731
; PRIOR APPLICATION NUMBER: 2001-11-20
; PRIOR FILING DATE: 1997-06-16
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; PRIOR APPLICATION NUMBER: 60/092182

; PRIOR FILING DATE: 1998-07-09
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QY 121 SPKESLGPDSGSGQEDPASQQWARPRFTQPSKMRRVIRPVGSSVRLKCVASGHRP 180
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Db 241 RTRSKPVLGTGHPVNTTVDFFGTTSPQCKVRSVDKPVIOWLKRVYEGAGRHNSTIDVG 300
QY 301 QKFVVLPTGDVWSRPDGSYLKPL 324
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RESULT 14
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; Patent No. US20020123463A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerlitsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
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; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
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; PRIOR FILING DATE: 2001-11-19
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; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09
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Query Match          99.4%; Score 1707; DB 9; Length 504;
Best Local Similarity 99.7%; Pred. No. 5.9e-108;
Matches 323; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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Db      1 MTPSPLLLLLPPLLGAPPAAAGPPKMAADKVVPRQVARIIGRTVRIQCPEVGDPPPL 60

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Db      61 TMWTKDGRTHSGWSRFRVLPQGLKVKQVEREDAGVYVCKATNGFGLSVNVTYLVLDI 120

QY      121 SPGKESLGPDDSSGGQEDPASQOWARPRFTQPSKMRRVIAIPVGVSSVRLKCVASGHPRP 180
      121 SPGKESLGPDDSSGGQEDPASQOWARPRFTQPSKMRRVIAIPVGVSSVRLKCVASGHPRP 180
Db      121 SPGKESLGPDDSSGGQEDPASQOWARPRFTQPSKMRRVIAIPVGVSSVRLKCVASGHPRP 180

QY      181 DITWMKDDQALTRPEAAEPRKKWTLSLKNLRPEDSGKYTCRVSNRAGAINATYKVDVIQ 240
      181 DITWMKDDQALTRPEAAEPRKKWTLSLKNLRPEDSGKYTCRVSNRAGAINATYKVDVIQ 240
Db      181 DITWMKDDQALTRPEAAEPRKKWTLSLKNLRPEDSGKYTCRVSNRAGAINATYKVDVIQ 240

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Db      241 RTRSKPVLGTHTPVNTVDFEGGTSFOCKVRSDVKPVIQWLKRVEYGAEGRNSTIDVG 300

QY      301 QKFVVLPTGDVWSRPDGSYLNKPL 324
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RESULT 15
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; Sequence 119, Application US/09991073
; Patent No. US20020127576A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
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; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivax J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
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PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1707; DB 9; Length 504;
Best Local Similarity 99.7%; Pred. No. 5.9e-108;
Matches 323; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MTPSPDLLLLPPLLGAFPAAARGPCKMADKVPKQVARIKRTVRLQCPVEGDPPL 60
DB 1 MTPSPDLLLLPPLLGAFPAAARGPCKMADKVPKQVARIKRTVRLQCPVEGDPPL 60
QY 61 TWMTKDGRTHSGWSRFRVLPQGLKYQVEREDAGVYVCKATNGFGLSVNTLVLDI 120
DB 61 TWMTKDGRTHSGWSRFRVLPQGLKYQVEREDAGVYVCKATNGFGLSVNTLVLDI 120
QY 121 SPKESLGPDDSSSGQEDPASQOMARPRFTQPSKMRRIARPVSSVRLKVASGHRP 180
DB 121 SPKESLGPDDSSSGQEDPASQOMARPRFTQPSKMRRIARPVSSVRLKVASGHRP 180
QY 181 DITWMKDQALTRPEAEPRKKKWTISLKNLRPEDSGKYTCRVSNRAGAINATYKVDVIQ 240
DB 181 DITWMKDQALTRPEAEPRKKKWTISLKNLRPEDSGKYTCRVSNRAGAINATYKVDVIQ 240
QY 241 RTRSKPVLGTGHPVNTTVDFFGTTSFQCKVRSQVPIQWLKRVYGAEGRHSTIDVG 300
DB 241 RTRSKPVLGTGHPVNTTVDFFGTTSFQCKVRSQVPIQWLKRVYGAEGRHSTIDVG 300
QY 301 QKFVVLPTGDVWSRPDGSYLKPL 324
DB 301 QKFVVLPTGDVWSRPDGSYLKPL 324

Search completed: February 2, 2005, 18:37:32
Job time : 156 secs

GenCore version 5.1.6
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OM protein - protein search, using BW model

```
Run on:      February 2, 2005, 18:12:29 ; Search time 159 Seconds
              (without alignments)
              730.996 Million cell updates/sec
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Title:	US-10-613-413B-8
Perfect score:	1717
Sequence:	1 MTPSPLLLLLLPPLLGAFP.....VLPTGDVMSRPDSSYLNKEL 324

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 2002273 begs, 358729299 residues

Total number of hits satisfying chosen parameters: 2002273

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Minimum DB seq length: 0
Maximum DB seq length: 2000000000
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Post-processing:	Minimum Match	0%
	Maximum Match	100%
	Listing first	45 summaries

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Database : A_Geneseq_23Sep04:*
1: geneseqp1980s:*
2: geneseqp1990s:*
3: geneseqp2000s:*
4: geneseqp2001s:*
5: geneseqp2002s:*
6: geneseqp2003as:*
7: geneseqp2003bs:*
8: geneseqp2004s:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	1717	100.0	324	8	ADF83418	Adf83418 Human fib
2	1707	99.4	472	4	AAU09810	Aau09810 Human fib
3	1707	99.4	504	3	AAy66656	Aay66656 Membrane-
4	1707	99.4	504	3	AAy92864	Aay92864 Human fib
5	1707	99.4	504	3	AAB24066	Aab24066 Human PRO
6	1707	99.4	504	4	AAB66264	Aab66264 Human MAN
7	1707	99.4	504	4	AAB65179	Aab65179 Human PRO
8	1707	99.4	504	5	AAU77790	Aau77790 Human PRO
9	1707	99.4	504	5	ABB84237	Abb84237 Human IMX
10	1707	99.4	504	5	AAU81961	Aau81961 Human PRO
11	1707	99.4	504	6	ABU57994	Abu57994 Human PRO
12	1707	99.4	504	6	ABU59072	Abu59072 Novel hum
13	1707	99.4	504	6	ABU82584	Abu82584 Human sec
14	1707	99.4	504	6	ABU60503	Abu60503 Human sec
15	1707	99.4	504	6	ABU13885	Abu13885 Human PRO
16	1707	99.4	504	6	ABU72470	Abu72470 Novel hum
17	1707	99.4	504	6	ABU59219	Abu59219 Human sec
18	1707	99.4	504	6	ABO25916	Abu25916 Human PRO
19	1707	99.4	504	6	ABU58925	Abu58925 Human sec
20	1707	99.4	504	6	ABU92303	Abu92303 Novel hum
21	1707	99.4	504	6	ABU59368	Abu59368 Novel hum
22	1707	99.4	504	6	ABU92134	Abu92134 Novel hum
23	1707	99.4	504	6	ABU10840	Abu10840 Human PRO
24	1707	99.4	504	6	ABU81592	Abu81592 Novel hum
25	1707	99.4	504	6	ABU88531	Abu88531 Human sec

ALIGNMENTS

26	1707	99.4	504	6	ABO34045	ABO34045	Human	PRO
27	1707	99.4	504	6	ADA37630	ADA37630	Human	sec
28	1707	99.4	504	6	ADA21316	Ada21316	Human	sec
29	1707	99.4	504	6	ADA10103	Ada10103	Human	sec
30	1707	99.4	504	6	ADA17647	Ada17647	Human	PRO
31	1707	99.4	504	6	ADA27755	Ada27755	Human	sec
32	1707	99.4	504	6	ADA94335	Ada94335	Human	sec
33	1707	99.4	504	6	ADA38560	Ada38560	Human	sec
34	1707	99.4	504	6	ADA92681	Ada92681	Human	sec
35	1707	99.4	504	7	ABO53131	ABO53131	Human	sec
36	1707	99.4	504	7	ADA22242	Ada22242	Human	sec
37	1707	99.4	504	7	ABO22501	ABO22501	Human	sec
38	1707	99.4	504	7	ADA06408	Ada06408	Human	sec
39	1707	99.4	504	7	AD896127	Ad896127	Human	PRO
40	1707	99.4	504	7	AD896127	Ad896127	Human	PRO
41	1707	99.4	504	7	ADC57599	Adc57599	Human	PRO
42	1707	99.4	504	7	ADC54963	Adc54963	Human	PRO
43	1707	99.4	504	7	ADC11830	Adc11830	Human	sec
44	1707	99.4	504	7	ADC56252	Adc56252	Human	PRO
45	1707	99.4	504	7	ADC07307	Adc07307	Human	sec

RESULT 1

ADP83418	ADP83418 standard; protein; 324 AA.
XX	
AC	ADP83418;
XX	
DT	26-FEB-2004 (first entry)
XX	
DE	Human fibroblast growth receptor 5 polypeptide.
XX	
KW	Human; fibroblast growth factor receptor 5; receptor; FGFR5; cyostatic;
KW	neuroprotective; antinflammatory; dermatological; immunosuppressive;
KW	antidiabetic; antirheumatic; antiarthritic; tuberculostatic;
KW	tuberculostatic; litholytic; nephrotropic; antiarteriosclerotic;
KW	vasotropic; osteopathic; gene therapy.
XX	
OS	Homo sapiens.
XX	
FH	Key
FT	Peptide
FT	1..24
FT	/note= "Signal peptide"
FT	44..106
FT	/note= "Immunoglobulin domain"
FT	51..54
FT	/note= "CAAX box"
FT	99..102
FT	/note= "CAAX box"
FT	145..171
FT	/note= "CAM binding domain"
FT	154..171
FT	/note= "Heparin binding domain"
FT	165..228
FT	/note= "Immunoglobulin domain"
FT	202..205
FT	/note= "cAMP- and cGMP-dependent protein kinase phosphorylation site"
FT	212..219
FT	/note= "Tyrosine kinase phosphorylation site"
FT	217..220
FT	/note= "CAAX box"
FT	261..324
FT	/note= "Immunoglobulin domain"
FT	268..271
FT	/note= "CAAX box"
XX	
XX	WO200309839-A1.
XX	
PD	04-DEC-2003

XX 27-MAY-2003; 2003WO-NZ000105.
PF
XX
XX 28-MAY-2002; 2002US-00157444.
PR
XX
PA (GENE-) GENESIS RES & DEV CORP LTD.
XX
PI Murison JG, Sleeman M;
XX
DR WPI, 2004-035099/03.
XX
PT Modulators of fibroblast growth factor receptor 5-gene expression or
PT polypeptide function, useful in a medicament for treating a disease
PT associated with elevated osteopontin expression e.g. cancer, multiple
PT sclerosis or diabetes.
XX
XX
PS Disclosure; Fig 10; 95pp; English.
XX
CC The present sequence is the protein sequence of human fibroblast growth
CC factor receptor 5 (FGFR5). The invention provides murine and human FGFR5
CC polypeptides and polynucleotides, as well as modulators of FGFR5 gene
CC expression and binding molecules that specifically bind to and agonise or
CC antagonise FGFR5 polypeptide function. Modulators of FGFR5 polypeptide
CC function include antibodies, scFv and Camelidae heavy chain IgG that
CC specifically bind to FGFR5. They can be used to treat diseases associated
CC with elevated osteopontin expression such as cancer (especially breast
CC cancer, hepatocellular carcinoma and colon cancer), multiple sclerosis,
CC systemic lupus erythematosus, diabetes, rheumatoid arthritis,
CC sarcoidosis, tuberculosis, kidney stones, atherosclerosis, vasculitis,
CC nephritis, arthritis, osteoporosis and osteopetrosis.
XX
SQ Sequence 324 AA;

Query Match 100.0%; Score 1717; DB 8; Length 324;
Best Local Similarity 100.0%; Pred. No. 1.7e-118;
Matches 324; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MTPSPLLLLLLPPLLGAFPAAAAAGPPKMDKVPVQRVARLGRTVRLQCPVEGDPPL 60
Db 1 MTPSPLLLLLLPPLLGAFPAAAAAGPPKMDKVPVQRVARLGRTVRLQCPVEGDPPL 60
QY 61 TMWTKDGRTHSGMSRFRVLPGGLKVKOVEREDAGVYVCKATNGFGSLSVNYTLVLDI 120
Db 61 TMWTKDGRTHSGMSRFRVLPGGLKVKOVEREDAGVYVCKATNGFGSLSVNYTLVLDI 120
QY 121 SPGESLGPDDSSGGQEDPASQQWAPRFTQPSKMRRIARVPVGS SVRLKCVASGHPRP 180
Db 121 SPGESLGPDDSSGGQEDPASQQWAPRFTQPSKMRRIARVPVGS SVRLKCVASGHPRP 180
QY 181 DITWMDQALTRPEAAEPRKKWTLSLKRLPEDSGKYTCRVSNRAGAINATYKVDVIQ 240
Db 181 DITWMDQALTRPEAAEPRKKWTLSLKRLPEDSGKYTCRVSNRAGAINATYKVDVIQ 240
QY 241 RTRSKPVLGTHPVNTVDFEGTTSFQCKVRSVPVIQWLKRVYGAEGRNSTIDVG 300
Db 241 RTRSKPVLGTHPVNTVDFEGTTSFQCKVRSVPVIQWLKRVYGAEGRNSTIDVG 300
QY 301 QKFVVLPTGDVWSRPDGSYLKPL 324
Db 301 QKFVVLPTGDVWSRPDGSYLKPL 324

RESULT 2
AAU09810
ID AAU09810 standard; protein; 472 AA.
XX
AC AAU09810;
XX
DT 27-FEB-2002 (first entry)
XX
DE Human fibroblast growth factor receptor-like protein.
XX
KW Human; fibroblast growth factor receptor-like protein; FGFR-L; anorectic;

KW haemostatic; osteopathic; cytostatic; nephrotropic; antidiabetic;
KW immunomodulator; antiinflammatory; haematopoietic disorder; osteoporosis;
KW osteogenesis imperfecta; Paget's disease; periodontal disease; cancer;
KW hypercalcaemia; acute glomerulonephritis; chronic glomerulonephritis;
KW diabetes; obesity; cachexia; transgenic animal; gene therapy.
XX
OS Homo sapiens.

XX
FH Key Location/Qualifiers
FT Peptide 1. .21
FT /note= "Signal peptide"
FT Protein 22. .472
FT /note= "Mature fibroblast growth factor receptor-like
FT protein; this sequence is specifically claimed in claim
FT 39"
FT 379. .399
FT Domain /note= "Predicted transmembrane domain"
XX

PN WO200170977-A2.

XX
PD 27-SEP-2001.

XX
PF 22-MAR-2001; 2001WO-US009073.

XX
PR 22-MAR-2000; 2000US-0191379P.

XX
PA (AMGE-) AMGEN INC.
PA (SARI/) SARIS C M.
PA (MUSX/) MU S X.
PA (XIAM/) XIA M.
PA (BOON/) BOONE T C.
PA (COVE/) COVEY T.

XX
PI Saris CM, Mu SX, Xia M, Boone TC, Covey T;
XX WPI, 2001-626128/72.
DR N-PSDB; AAS14936.

XX
PT Novel nucleic acid encoding fibroblast growth factor receptor-like
PT polypeptides, useful for treating hematopoietic disorder, osteoporosis,
PT Paget's disease, glomerulonephritis, cancer, diabetes, obesity and
PT cachexia.

PS Claim 13; Fig 2; 163pp; English.

XX
CC The invention relates to a novel isolated fibroblast growth factor
CC receptor-like (FGFR-L) polypeptide (I). (I) and the nucleic acid (II)
CC encoding (I) are useful for treating, preventing or ameliorating a
CC medical condition including haematopoietic disorder, osteoporosis,
CC osteogenesis imperfecta, Paget's disease, periodontal disease,
CC hypercalcaemia, acute glomerulonephritis, chronic glomerulonephritis,
CC cancer, diabetes, obesity and cachexia. (I) is also useful for
CC identifying a compound which binds to FGFR-L polypeptide, by contacting
CC (I) with a compound, determining the extent of binding of the FGFR-L
CC polypeptide to the compound, and determining the activity of the
CC polypeptide when bound to the compound. (II) is useful for modulating (I)
CC levels of a polypeptide in an animal. A transgenic animal comprising (I)
CC is useful for determining whether a compound inhibits FGFR-L polypeptide
CC activity or FGFR-L polypeptide production, by exposing the transgenic
CC animal to the compound and measuring FGFR-L polypeptide or production in
CC the mammal. (II) is useful for mapping the locations of FGFR-L gene and
CC related genes on chromosomes, as hybridisation probes in diagnostic
CC assays to test for the presence of an FGFR-L nucleic acid molecule in
CC mammalian tissue or bodily fluid samples, in gene therapy, and as tools
CC for isolating corresponding FGFR-L polypeptide genes. (I) is useful as
CC immunogen, and for cloning FGFR-L polypeptide ligands using an expression
CC cloning strategy. The present sequence represents the amino acid sequence
CC of human fibroblast growth factor receptor-like protein as described in
CC the invention

SQ Sequence 472 AA;

Query Match 99.4%; Score 1707; DB 4; Length 472;

Best Local Similarity 99.7%; Pred. No. 1.4e-117;
Matches 323; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Db       1 MTPSPLLLLLPPLLIGAFPPAAARGPCKMADKVPQVARIIGRTVRLQCPVEGDPPL 60

QY      61 TMWTKDGRTHSGWSRFRVLPQGLKVKQVEREDAGVYVCKATNGFGLSVNNTLVLLDDI 120
        |||
Db       61 TMWTKDGRTHSGWSRFRVLPQGLKVKQVEREDAGVYVCKATNGFGLSVNNTLVLLDDI 120

QY      121 SPGKESLGPSSSGQEDPASQOWARPRFTQPSKMRRVIARPVGSSVRLKCVASGHPRP 180
        |||
Db       121 SPGKESLGPSSSGQEDPASQOWARPRFTQPSKMRRVIARPVGSSVRLKCVASGHPRP 180

QY      181 DITWMKDDQALTRPEAAEPRKKMTLSLKNLRPEDSGKYTCRVSNRAGAINATYKYVDVIQ 240
        |||
Db       181 DITWMKDDQALTRPEAAEPRKKMTLSLKNLRPEDSGKYTCRVSNRAGAINATYKYVDVIQ 240

QY      241 RTRSKPVLTGTHPVNTTVDFGGTTSFQCKVRSDVKPVIQWLKREYGAEGRHNSITDVGG 300
        |||
Db       241 RTRSKPVLTGTHPVNTTVDFGGTTSFQCKVRSDVKPVIQWLKREYGAEGRHNSITDVGG 300

QY      301 QKFVVLPTGDVWSRPDGSYLNKPL 324
        |||
Db       301 QKFVVLPTGDVWSRPDGSYLNKLL 324
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RESULT 3
AAY66656
ID  AAY66656 standard; protein; 504 AA.
XX
AC  AAY66656;
XX
DT  05-APR-2000 (first entry)
XX
DE  Membrane-bound protein PRO943.
XX
KW  Membrane-bound polypeptide; PRO polypeptide; LDL receptor; TIE ligand;
KW  pharmaceutical; receptor immunoadhesin; gene mapping.
XX
OS  Homo sapiens.
XX
PN  WO963088-A2.
XX
PD  09-DEC-1999.
XX
PF  02-JUN-1999; 99WO-US012252.
XX
PR  02-JUN-1998; 98US-0087607P.
PR  02-JUN-1998; 98US-0087609P.
PR  02-JUN-1998; 98US-0087759P.
PR  03-JUN-1998; 98US-0087827P.
PR  04-JUN-1998; 98US-0088021P.
PR  04-JUN-1998; 98US-0088025P.
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PR  10-JUN-1998; 98US-0088810P.
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PR  12-JUN-1998; 98US-0089105P.
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PR  24-JUN-1998; 98US-0090429P.
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PR  01-JUL-1998; 98US-0091358P.
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PR  04-AUG-1998; 98US-0095302P.
PR  04-AUG-1998; 98US-0095318P.
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PR 04-AUG-1998; 98US-0095321P.
PR 04-AUG-1998; 98US-0095325P.
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PR 10-AUG-1998; 98US-0095929P.
PR 10-AUG-1998; 98US-0096012P.
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PR 11-AUG-1998; 98US-0096146P.
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PR 17-AUG-1998; 98US-0096791P.
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PR 17-AUG-1998; 98US-0096895P.
PR 17-AUG-1998; 98US-0096897P.
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PR 24-AUG-1998; 98US-0097661P.
PR 26-AUG-1998; 98US-0097951P.
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PR 26-AUG-1998; 98US-0097979P.
PR 26-AUG-1998; 98US-0098014P.
PR 31-AUG-1998; 98US-0098525P.
PR 16-SEP-1998; 98US-0100634P.
PR 12-JAN-1999; 99US-0115565P.
XX
XX
PA (GETH) GENENTECH INC.
XX
XX Baker K, Chen J, Goddard A, Gurney AL, Smith V, Watanabe CK;
PI Wood WI, Yuan J;
XX
XX
DR WPI; 2000-072883/06.
DR N-PSDB; AAZ64984.
XX
XX
PT Membrane-bound proteins and related nucleotide sequences.
XX
PS Claim 12; Fig 70; 822pp; English.
XX
XX The invention provides membrane-bound PRO polypeptides and
CC polynucleotides encoding them. The PRO sequences of the invention were
CC identified based on extracellular domain homology screening. The PRO
CC sequences have homology with proteins including LDL receptors, TIE
CC ligands and various enzymes. The membrane-bound proteins and receptor
CC molecules are useful as pharmaceutical and diagnostic agents. Receptor
CC immunoadhesins, for instance, can be used as therapeutic agents to block
CC receptor-ligand interactions. The membrane-bound proteins can also be
CC employed for screening of potential peptide or small molecule inhibitors
CC of the relevant receptor/ligand interaction. The PRO encoding sequences
CC are useful as hybridization probes, in chromosome and gene mapping and in
CC the generation of antisense RNA and DNA. PRO nucleic acid sequences will
CC also be useful for the preparation of PRO polypeptides, especially by
CC recombinant techniques
XX
SQ Sequence 504 AA;

Query Match 99.4%; Score 1707; DB 3; Length 504;
Best Local Similarity 99.7%; Pred. No. 1.5e-117;
Matches 323; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MTPSPLLLLLLPPLLGAFPPPAAARGPPKMA DKVYPRQVARTLGRTYRLQCPVEGDPPPL 60
|||
Db 1 MTPSPLLLLLLPPLLGAFPPPAAARGPPKMA DKVYPRQVARTLGRTYRLQCPVEGDPPPL 60
QY 61 TMWTKDGRTHISGWSRFRVLPOGLKVKQVEREDAGVYVCKATNGFGSLSVNYTLVLDI 120
|||
Db 61 TMWTKDGRTHISGWSRFRVLPOGLKVKQVEREDAGVYVCKATNGFGSLSVNYTLVLDI 120
QY 121 SPKESLGPDSSSGGQEDPASQOWARPRFTQPSKMRARRVIARPVGSSVRLKCVASGHRP 180
|||
Db 121 SPKESLGPDSSSGGQEDPASQOWARPRFTQPSKMRARRVIARPVGSSVRLKCVASGHRP 180
QY 181 DITWMKDDQALTRPEAAEPRKKWTL SLKNLRBEDSGKTCRVSNRAGAINATYKVDVIQ 240
|||
Db 181 DITWMKDDQALTRPEAAEPRKKWTL SLKNLRBEDSGKTCRVSNRAGAINATYKVDVIQ 240
QY 241 RTRSKPVLTGTHPVNTTVD FGGTTSFQCKVRS DVKPVIOWLKRV EYGAEGRHNSTIDVGG 300
|||
Db 241 RTRSKPVLTGTHPVNTTVD FGGTTSFQCKVRS DVKPVIOWLKRV EYGAEGRHNSTIDVGG 300
QY 301 QKFVVLPTGDVWSRPDGSYL NKPL 324
|||
Db 301 QKFVVLPTGDVWSRPDGSYL NKPL 324

RESULT 4
AA92864
ID AA92864 standard; protein; 504 AA.

XX
AC AA92864;

XX
DT 29-AUG-2000 (first entry)

XX
DE Human fibroblast growth factor receptor 5.

XX
KW FGFR-5; fibroblast growth factor receptor 5; cytostatic; anti-sclerotic;
KW immunomodulatory; gastrointestinal; virocidic; anti-inflammatory;
KW anti-ischemic; anti-atherosclerosis; angiogenic; endocrine;
KW anti-diabetic; gene therapy.

XX
OS Homo sapiens.

XX
FH Key Location/Qualifiers

FT Peptide /label= leader_sequence

FT Peptide /label= antigenic

FT Protein /label= mature_protein

FT Domain /label= extracellular

FT Peptide /note= "immunoglobulin domain I"

FT Peptide /label= antigenic

FT Peptide /label= antigenic

FT Peptide /label= antigenic

FT Peptide /label= antigenic

FT Peptide /label= antigenic

FT Peptide /label= antigenic

FT Peptide /label= antigenic

FT Peptide /label= antigenic

FT Peptide /label= antigenic

FT Peptide /label= antigenic

FT Peptide /label= antigenic

FT Peptide /label= antigenic

FT Peptide /label= antigenic

FT Peptide /label= antigenic

FT Peptide /label= antigenic

FT Peptide /label= antigenic

FT Peptide /label= antigenic

FT Peptide /label= antigenic

FT Peptide /label= antigenic

FT Peptide /label= antigenic

FT Peptide /label= antigenic

FT Peptide /label= antigenic

FT Peptide /label= antigenic

FT Peptide /label= antigenic

FT Peptide /label= antigenic

FT Peptide /label= antigenic

FT Peptide 238..247
FT /label= antigenic
FT Domain 240..357
FT /label= extracellular
FT /note= "immunoglobulin domain III"
FT Peptide 259..262
FT /label= antigenic
FT Peptide 268..275
FT /label= antigenic
FT Peptide 282..302
FT /label= antigenic
FT Peptide 307..320
FT /label= antigenic
FT Peptide 326..334
FT /label= antigenic
FT Peptide 356..375
FT /label= antigenic
FT Peptide 358..373
FT /label= membrane_proximal_domain
FT Domain 374..403
FT /label= transmembrane_domain
FT Peptide 401..435
FT /label= antigenic
FT Domain 404..504
FT /label= intracellular_domain
FT Peptide 440..443
FT /label= antigenic
FT Peptide 446..455
FT /label= antigenic
FT Peptide 462..475
FT /label= antigenic
FT Peptide 483..496
FT /label= antigenic
XX WO200024756-A1.
XX 04-MAY-2000.
XX PD
XX PF 17-JUN-1999; 99WO-US013620.
XX PR 23-OCT-1998; 98US-0105465P.
XX PA (HUMA-) HUMAN GENOME SCI INC.
XX PI Ruben SM, Young PE;
XX WPI; 2000-387035/33.
XX DR N-PSDB; AAA28842.
XX PT Nucleic acids encoding fibroblast growth factor-5 useful for the
PT prevention, diagnosis and treatment of conditions associated with tissue
PT repair and aberrant cell functions, e.g. cell survival and proliferation.
XX PS Claim 11; Fig 1A-C; 182pp; English.
XX CC This is the fibroblast growth factor receptor protein, FGFR-5. The FGFR-5
CC protein and DNA may be used in the prevention, treatment and diagnosis of
CC diseases or conditions associated with inappropriate FGFR-5 expression
CC and activity. For example, the nucleic acids (and vectors containing
CC them) and the FGFR-5 polypeptide may be used to treat disorders
CC associated with increased or decreased cell survival (such as cancers
CC (e.g. leukemia, colonic cancer, testicular cancer and follicular
CC lymphomas), autoimmune disorders (e.g. multiple sclerosis and Crohn's
CC disease) viral infections (e.g. herpes viruses), inflammation, graft
CC versus host disease, acute and chronic graft rejection, ischemic injuries
CC and atherosclerosis), activation, secretion, migration, differentiation
CC and proliferation, diseases associated with defects in wound healing,
CC mucositis, defects of angiogenesis, immune dysfunction, endocrine
CC dysfunction and insulin secretion disorders. Anti-FGFR-5 antibodies may
CC also be used as diagnostic agents for detecting the presence of FGFR-5
CC polypeptides in samples
XX SQ Sequence 504 AA;

Query Match 99.4%; Score 1707; DB 3; Length 504;
Best Local Similarity 99.7%; Pred. No. 1.5e-117;
Matches 323; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 MTPSPLLLLLLPPLLIGAFPPAAARGPPKADKVVPRQVARGRTVRLQCPVEGDPPL 60
D 1 MTPSPLLLLLLPPLLIGAFPPAAARGPPKADKVVPRQVARGRTVRLQCPVEGDPPL 60
QY 61 TMWTKDGRTHSGWSRFRVLPQGLKVKOVEREDAGVVCATNGFGLSVNYTLVLLDI 120
D 61 TMWTKDGRTHSGWSRFRVLPQGLKVKOVEREDAGVVCATNGFGLSVNYTLVLLDI 120
QY 121 SPGKESLGPDDSSGGQEDPASQOWARPRFTOPSXMRRVYIARPVGSSVRLKCVASGHRP 180
D 121 SPGKESLGPDDSSGGQEDPASQOWARPRFTOPSXMRRVYIARPVGSSVRLKCVASGHRP 180
QY 181 DITWKKDDQALTRPEAABPRKKWTLSLKNLRPEDSGKYTCRVSNRAGAINATYKYDVIO 240
D 181 DITWKKDDQALTRPEAABPRKKWTLSLKNLRPEDSGKYTCRVSNRAGAINATYKYDVIO 240
QY 241 RTRSKPVLGTGHPVNTVDEGGTTSFQCKVRSVKPYIQLKRVYGAEGRHNTIDVGG 300
D 241 RTRSKPVLGTGHPVNTVDEGGTTSFQCKVRSVKPYIQLKRVYGAEGRHNTIDVGG 300
QY 301 QKEFVLP.TG.DVWSR.PDGS.YLNKPL 324
D 301 QKEFVLP.TG.DVWSR.PDGS.YLNKPL 324

RESULT 5
AAB24066
ID AAB24066 standard; protein; 504 AA.
XX AC AAB24066;
XX DT 29-JAN-2001 (first entry)
XX DE Human PRO943 protein sequence SEQ ID NO:29.
XX KW Human; tumour; diagnosis; neoplastic disease; neoplastic cell growth;
KW proliferation; tumorigenesis; identification; cancer; cytostatic;
KW neutrotropic; neuroprotective; antiinflammatory; immunosuppressive;
KW immunostimulant; antiangiogenic; leukaemia; lymphoid malignancy;
KW neuronal disorder; glial disorder; astrocytal disorder; angiogenic;
KW hypothalamic disorder; glandular disorder; macrophagal disorder;
KW epithelial disorder; stromal disorder; blastocoealic disorder;
KW inflammatory disorder; immunologic disorder.
XX OS Homo sapiens.
XX PN WO200053755-A2.
XX PD 14-SEP-2000.
XX PF 06-JAN-2000; 2000WO-US000376.
XX PR 08-MAR-1999; 99WO-US005028.
PR 02-JUN-1999; 99WO-US012252.
PR 23-JUN-1999; 99US-0141037P.
PR 07-JUL-1999; 99US-0143048P.
PR 26-JUL-1999; 99US-0145698P.
PR 30-NOV-1999; 99WO-US028313.
PR 20-DEC-1999; 99WO-US030911.
PR 05-JAN-2000; 2000WO-US000219.
XX PA (GETH) GENENTECH INC.
XX PI Ashkenazi AJ, Baker KP, Goddard A, Gurney AL, Hillan KJ, Roy MA;
PI Watanabe CK, Wood WI;
XX WPI; 2000-572270/53.
XX DR N-PSDB; AAC58376.

XX Thirty PRO polynucleotides encoding PRO polypeptides, useful in the
PT treatment, diagnosis and prevention of cancer.
XX

PS Claim 61; Fig 20; 286pp; English.

XX The present invention describes an isolated antibody that binds to one of
CC the human PRO proteins designated PRO212, PRO290, PRO341, PRO535, PRO619,
CC PRO17, PRO809, PRO830, PRO848, PRO943, PRO1005, PRO1009, PRO1025,
CC PRO1030, PRO1097, PRO1107, PRO1111, PRO1153, PRO1182, PRO1184, PRO1187,
CC PRO1281, PRO23, PRO39, PRO834, PRO1317, PRO1710, PRO2094, PRO2145 OR
CC PRO2198. PRO antagonists can be used to inhibit tumour cell growth. The
CC PRO polypeptides and nucleotides are useful in the treatment, diagnosis
CC and prevention of cancer. The antibodies and other anti-tumour compounds
CC maybe used to treat various conditions, including those characterised by
CC overexpression and/or activation of the amplified PRO genes. Exemplary
CC conditions or disorders to be treated with such antibodies and other
CC compounds include benign or malignant tumours (e.g., renal, liver,
CC kidney, bladder, breast, gastric, ovarian, colorectal, prostate,
CC pancreatic, lung, vulva, thyroid, hepatic carcinomas, sarcomas,
CC glioblastomas, and various head and neck tumours), leukaemias and
CC lymphoid malignancies, other disorders such as neuronal, glial,
CC astrocytal, hypothalamic and other glandular, macrophagal, epithelial,
CC stromal and blastocoeleic disorders, and inflammatory, angiogenic and
CC immunologic disorders. AAC58242 to AAC58366 represent PCR primers and
CC hybridisation probes used in the isolation of the human PRO sequences.
CC AAC58367 to AAC58396 and AAB24057 to AAB24089 represent human PRO
CC polynucleotide and protein sequences given in the exemplification of the
CC present invention

XX Sequence 504 AA;

Query Match 99.4%; Score 1707; DB 3; Length 504;
Best Local Similarity 99.7%; Pred. No. 1.5e-117;
Matches 323; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MTPSPLLLLLPPLLLGAFPPAAARGPVKMADKVPVROVARLGRTVRLQCPVEGDPPL 60
Db 1 MTPSPLLLLLPPLLLGAFPPAAARGPVKMADKVPVROVARLGRTVRLQCPVEGDPPL 60
QY 61 TMWTKDGRTHSGWSRFRVLPQGLKVKOVEREDAGVYVCKATNGFGLSVNYTLVLLDDI 120
Db 61 TMWTKDGRTHSGWSRFRVLPQGLKVKOVEREDAGVYVCKATNGFGLSVNYTLVLLDDI 120
QY 121 SPGKESLGPSSSGQEDPASQOWARPRFTQPSKMRRRVIAIPVGSSVRLKCVASGHPRP 180
Db 121 SPGKESLGPSSSGQEDPASQOWARPRFTQPSKMRRRVIAIPVGSSVRLKCVASGHPRP 180
QY 181 DITWMKDDQALTRPEAAEPRKKWTLCLKLRPDSGKYTCRVSNRAGAINATYKVDVIQ 240
Db 181 DITWMKDDQALTRPEAAEPRKKWTLCLKLRPDSGKYTCRVSNRAGAINATYKVDVIQ 240
QY 241 RTRSKPVLGTGTHPVNTTVDGTTSFQCKVRSVDKPVIOWLKRVYGAEGRHNSTIDVG 300
Db 241 RTRSKPVLGTGTHPVNTTVDGTTSFQCKVRSVDKPVIOWLKRVYGAEGRHNSTIDVG 300
QY 301 QKFVVLPTGDVWSRPDGSYLNKPL 324
Db 301 QKFVVLPTGDVWSRPDGSYLNKPL 324

RESULT 6
AAB66264
ID AAB66264 standard; protein; 504 AA.

XX AAB66264;
AC
XX
DT 05-APR-2001 (first entry)
XX
DE Human MANGO 003 SEQ ID NO: 5.
XX
KW Membrane associated protein; secreted protein; human; mouse; rat;
INTERCEPT 340; MANGO 003; MANGO 347; TANGO 272; TANGO 295; TANGO 354;

KW TANGO 378; skeletal disorder; cardiovascular disorder; renal disorder;
KW haematopoietic disorder; neural disorder; hepatic disorder;
KW neoplastic disease.

OS Homo sapiens.

XX WO200100673-A1.

XX 04-JAN-2001.

XX 29-JUN-2000; 2000WO-US018198.

XX 30-JUN-1999; 99US-00345464.

PA (MILL-) MILLENNIUM PHARM. INC.

PI Barnes TM, Fraser CC, Wrighton N, Myers P, Busfield SJ, Sharp JD;

XX WPI; 2001-050128/06.

DR N-PSDB; AAF27781.

PT Isolated secreted or transmembrane proteins are used for diagnosis and
PT treatment of neoplastic and hematopoietic disorders e.g. T cell
PT disorders, cancer and tumors.

PS Claim 9; Page 216-217; 294pp; English.

CC The present invention provides the protein and coding sequences for a
CC number of membrane associated and secreted proteins from human, mouse and
CC rat. The proteins are designated INTERCEPT 340, MANGO 003, MANGO 347,
CC TANGO 272, TANGO 295, TANGO 254 and TANGO 378. The proteins are all
CC involved in signal transduction and the sequences can be used in the
CC treatment of cardiovascular, renal, hepatic, neural, neoplastic, skeletal
CC and haematopoietic disorders

XX Sequence 504 AA;

Query Match 99.4%; Score 1707; DB 4; Length 504;
Best Local Similarity 99.7%; Pred. No. 1.5e-117;
Matches 323; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MTPSPLLLLLPPLLLGAFPPAAARGPVKMADKVPVROVARLGRTVRLQCPVEGDPPL 60
Db 1 MTPSPLLLLLPPLLLGAFPPAAARGPVKMADKVPVROVARLGRTVRLQCPVEGDPPL 60
QY 61 TMWTKDGRTHSGWSRFRVLPQGLKVKOVEREDAGVYVCKATNGFGLSVNYTLVLLDDI 120
Db 61 TMWTKDGRTHSGWSRFRVLPQGLKVKOVEREDAGVYVCKATNGFGLSVNYTLVLLDDI 120
QY 121 SPGKESLGPSSSGQEDPASQOWARPRFTQPSKMRRRVIAIPVGSSVRLKCVASGHPRP 180
Db 121 SPGKESLGPSSSGQEDPASQOWARPRFTQPSKMRRRVIAIPVGSSVRLKCVASGHPRP 180
QY 181 DITWMKDDQALTRPEAAEPRKKWTLCLKLRPDSGKYTCRVSNRAGAINATYKVDVIQ 240
Db 181 DITWMKDDQALTRPEAAEPRKKWTLCLKLRPDSGKYTCRVSNRAGAINATYKVDVIQ 240
QY 241 RTRSKPVLGTGTHPVNTTVDGTTSFQCKVRSVDKPVIOWLKRVYGAEGRHNSTIDVG 300
Db 241 RTRSKPVLGTGTHPVNTTVDGTTSFQCKVRSVDKPVIOWLKRVYGAEGRHNSTIDVG 300
QY 301 QKFVVLPTGDVWSRPDGSYLNKPL 324
Db 301 QKFVVLPTGDVWSRPDGSYLNKPL 324

RESULT 7
AAB65179
ID AAB65179 standard; protein; 504 AA.

XX AAB65179;
AC
XX
DT 02-APR-2001 (first entry)

XX Human PRO943 (UNQ480) protein sequence SEQ ID NO:119.
DE
XX
KW Human; secreted and transmembrane protein; PRO; cytosstatic; cell death;
KW Cancer; chromosomal mapping; gene mapping; tissue typing;
KW diagnostic assay.
XX
OS Homo sapiens.
XX
PN WO200073454-A1.
XX
PD 07-DEC-2000.
XX
PF 30-MAR-2000; 2000WO-US008439.
XX
XX 02-JUN-1999; 99WO-US012252.
PR 23-JUN-1999; 99US-0141037P.
PR 07-JUL-1999; 99US-0143048P.
PR 20-JUL-1999; 99US-0144758P.
PR 26-JUL-1999; 99US-0145698P.
PR 28-JUL-1999; 99US-0146222P.
PR 17-AUG-1999; 99US-0149396P.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 08-OCT-1999; 99US-0158663P.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028301.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
XX
PA (GETH) GENENTECH INC.
XX
PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
PI Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi CJ, Gurney AL, Kijavini IJ, Napier MA, Pan J, Paoni NF;
PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;
PI Zhang Z;
XX
XX WPI; 2001-032160/04.
DR N-PSDB; AAF44130.
XX
XX PRO polynucleotides used to produce polypeptides used to target bioactive
PT molecules such as toxins, radiolabels or antibodies, to specific cells,
PT to cause targeted cell death.
PT
XX
PS Claim 12; Fig 70; 935pp; English.
XX
XX The present invention describes human secreted and transmembrane PRO
CC proteins. The PRO proteins have cytostatic activity. The PRO proteins can
CC be used for targeted delivery of bioactive molecules, such as toxins,
CC radiolabels or antibodies, that cause cell death. PRO nucleotide
CC sequences, and their fragments, can be used as hybridisation probes, in
CC chromosomal and gene mapping, and in the generation of anti-sense RNA and
CC DNA. They may also be used to produce transgenic animals which are used
CC to develop and screen therapeutically useful reagents. The PRO nucleotide
CC and protein sequence can be used for tissue typing and in treating
CC cancer. Anti-PRO antibodies can be used in diagnostic assays. AAF44270 to
CC AAF4470 represent PCR primers and hybridisation probes used in the
CC isolation of human PRO sequences. AAF44087 to AAF44269 and AAB5154 to
CC AAB5300 represent human PRO polynucleotide and protein sequences given
CC in the exemplification of the present invention
XX
XX Sequence 504 AA;
SQ

Query Match 99.4%; Score 1707; DB 4; Length 504;
Best Local Similarity 99.7%; Pred. No. 1.5e-117;
Matches 323; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 MTPSPLLLLLLPPLILGAFPPAAARGPPKMDKVVPRQVARLGRVTLQCPVEGDPPL 60
DB 1 MTPSPLLLLLLPPLILGAFPPAAARGPPKMDKVVPRQVARLGRVTLQCPVEGDPPL 60
QY 61 TMWTKDGRTHSGWSRFRVLPQGLKVKOVEREDAGVYVCKATNGFGLSVNYTLVLLDI 120
DB 61 TMWTKDGRTHSGWSRFRVLPQGLKVKOVEREDAGVYVCKATNGFGLSVNYTLVLLDI 120
QY 121 SPGKESLGPDDSSGGQEDPASQOWARPRFTQPSKMRARRVIARPVGSSVRLKCVASGHPRP 180
DB 121 SPGKESLGPDDSSGGQEDPASQOWARPRFTQPSKMRARRVIARPVGSSVRLKCVASGHPRP 180
QY 181 DITWKKDDQALTRPEAAEPRKKWTLISKNLRPEDSGKYTCRVSNRAGAINATYKVDVIQ 240
DB 181 DITWKKDDQALTRPEAAEPRKKWTLISKNLRPEDSGKYTCRVSNRAGAINATYKVDVIQ 240
QY 241 RTRSKPVLTGTHPVNTTVDFEGTTSFOCKVRSQVPIQMLKRVYGAEGRHNSTIDVG 300
DB 241 RTRSKPVLTGTHPVNTTVDFEGTTSFOCKVRSQVPIQMLKRVYGAEGRHNSTIDVG 300
QY 301 QKFVVLPTGDVWSRPDGSYLNKPL 324
DB 301 QKFVVLPTGDVWSRPDGSYLNKPL 324

RESULT 8

AAU77790

ID AAU77790 standard; protein; 504 AA.

AC AAU77790;

DT 05-JUN-2002 (first entry)

DE Human PRO943 protein.

XX PRO; cancer; neoplastic; human; tumour; PRO943; PRO1250; PRO1337;
KW breast cancer; ovarian cancer; colorectal cancer; lung cancer;
KW central nervous system cancer; melanoma; leukaemia.

OS Homo sapiens.

PN WO200149715-A2.

PD 12-JUL-2001.

PF 08-NOV-2000; 2000WO-US030952.

PR 06-JAN-2000; 2000WO-US000376.

PR 18-FEB-2000; 2000WO-US004342.

PR 02-MAR-2000; 2000WO-US005841.

PR 30-MAR-2000; 2000WO-US008439.

PR 28-JUL-2000; 2000WO-US020710.

XX (GETH) GENENTECH INC.

XX Ashkenazi AJ, Goddard A, Gurney AL, Napier MA, Watanabe CK;
PI Wood WI;
XX WPI; 2002-256031/30.
DR N-PSDB; ABK11750.

XX Composition for inhibiting neoplastic cell growth or treating tumors
PT e.g. breast cancer and ovarian cancer in mammals comprising PRO943,
PT PRO1250 or PRO1337 or its agonist.
XX
XX Claim 19; Fig 2; 101pp; English.

XX This sequence relates to a novel composition useful for inhibiting

CC neoplastic cell growth or treating tumours in mammals. The method
CC comprises a polypeptide PRO943, PRO1250 or PRO1337 of the invention in
CC admixture with a carrier. The invention also comprises the nucleotide and
CC protein sequences of the three PRO proteins. The composition of the
CC invention is useful for inhibiting neoplastic cell growth and for
CC treating tumours e.g. breast cancer, ovarian cancer, colorectal cancer,
CC lung cancer, central nervous system cancer, melanoma or leukaemia in a
CC mammal. An expression vector containing the nucleotide sequences of the
CC invention is useful for producing the PRO proteins by recombinant
CC techniques, these proteins may then be used to create anti-PRO antibodies
CC which may be used for detection of PRO protein or inhibition of PRO
CC protein activity. The present sequence represents the human PRO943
CC protein of the invention

XX Sequence 504 AA;

Query Match 99.4%; Score 1707; DB 5; Length 504;
Best Local Similarity 99.7%; Pred. No. 1.5e-117;
Matches 323; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MTPSPLLLLLPPLLGAFPPPAARGPCKMADKVPVPRQVARTLGRVRLQCPVEGDPPL 60
Db 1 MTPSPLLLLLPPLLGAFPPPAARGPCKMADKVPVPRQVARTLGRVRLQCPVEGDPPL 60
QY 61 TMWTKDGRTHSGWSRFRVLPQGLKVKOVEREDAGVYVCKATNGFGSLSVNYTLVLLDDI 120
Db 61 TMWTKDGRTHSGWSRFRVLPQGLKVKOVEREDAGVYVCKATNGFGSLSVNYTLVLLDDI 120
QY 121 SPGKESLGPDDSSGGQEDPASQOWARPRFTQPSKMRRVIAAPVGS SVRLKCVASGHPRP 180
Db 121 SPGKESLGPDDSSGGQEDPASQOWARPRFTQPSKMRRVIAAPVGS SVRLKCVASGHPRP 180
QY 181 DITWMKDDQALTRPEAAERPKKKWTL SLKNLRPEDSGKYTCRVSNRAGAINATYKVDVIQ 240
Db 181 DITWMKDDQALTRPEAAERPKKKWTL SLKNLRPEDSGKYTCRVSNRAGAINATYKVDVIQ 240
QY 241 RTRSKPVLGTGTHPVNTVDFGTTSFQCKVRS DVKVIQWLKRVYGAEGRHNSTIDVG 300
Db 241 RTRSKPVLGTGTHPVNTVDFGTTSFQCKVRS DVKVIQWLKRVYGAEGRHNSTIDVG 300
QY 301 QKFVVLPTGVDWVRPDSGYLNKPL 324
Db 301 QKFVVLPTGVDWVRPDSGYLNKPL 324

RESULT 9
ABB84237
ID ABB84237 standard; protein; 504 AA.

XX ABB84237;

DT 20-SEP-2002 (first entry)

DE Human IMXP-888 isoform PRO943 protein.

KW Human; IMXP-888; PRO943; fibroblast growth factor receptor; virucide;
KW antibacterial; fungicide; cytostatic; antirheumatic; antiarthritic;
KW antibacterial; immunosuppressive; neuroprotective; antiinflammatory;
KW antidiabetic; dermatological; antiasthmatic; antiallergic; vasotropic;
KW antiatherosclerotic; antipsoriatic; nootropic; infection; cancer; lupus;
KW septic shock; multiple sclerosis; adult respiratory distress syndrome;
KW ARDS; pneumonia; diabetes; asthma; allergy; reperfusion injury; eczema;
KW atherosclerosis; cardiovascular disease; psoriasis; fibrosis;
KW sarcoidosis; Alzheimer's disease; cytokine inducer.

XX Homo sapiens.

XX Key Location/Qualifiers

FT Peptide 1..17

FT Region /label= signal_peptide

FT 18..375

FT /note= "soluble extracellular region specifically claimed

FT in Claim 4"
FT Region 23..370
FT /note= "soluble extracellular region specifically claimed
FT in Claim 5"
FT Region 376..396
FT /note= "transmembrane region"

XX WO200255533-A2.

XX 18-JUL-2002.

XX 20-NOV-2001; 2001WO-US043782.

XX 22-NOV-2000; 2000US-0252785P.

XX (IMMUNEX CORP.

XX Chipman SD, Schooley KA, Born TL, Dubose RF,

XX WPI; 2002-557812/59.

XX Activating immune system in a mammal by administering to the mammal a
XX cytokine inducer polypeptide, IMXP-888, or treating inflammatory disorder
XX in a mammal by administering an IMXP-888 antagonist to the mammal.

XX Claim 4; Page 39-41; 41p; English.

CC This invention describes a novel method for activating the immune system
CC in a mammal. The method comprises administering to the mammal an
CC effective amount of a cytokine inducer polypeptide, IMXP-888, or treating
CC an inflammatory disorder in a mammal comprising, administering an
CC effective amount of an IMXP-888 antagonist to the mammal. The method of
CC the invention has virucide, antibacterial, fungicide, cytostatic,
CC antirheumatic, antiarthritic, antibacterial, immunosuppressive,
CC neuroprotective, antiasthmatic, vasotropic, dermatosclerotic,
CC antipsoriatic and nootropic activity. The method is useful for activating
CC the immune system in a mammal having a condition selected from viral,
CC bacterial or fungal infection, cancer, and graft versus host disorders,
CC or for treating an inflammatory disorder in a mammal, preferably human.
CC The method is useful for treating inflammatory disorders such as
CC rheumatoid arthritis, septic shock, multiple sclerosis, adult respiratory
CC distress syndrome (ARDS), pneumonia, diabetes, lupus, asthma and other
CC lung conditions, allergies, reperfusion injury, atherosclerosis and other
CC cardiovascular diseases, eczema, psoriasis, fibrosis and the range of
CC fibrotic disorders, sarcoidosis, Alzheimer's disease, and cancer. This
CC sequence represents member of the IMXP-888 family, PRO943, used in the
CC method of the invention

XX Sequence 504 AA;

Query Match 99.4%; Score 1707; DB 5; Length 504;
Best Local Similarity 99.7%; Pred. No. 1.5e-117;
Matches 323; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MTPSPLLLLLPPLLGAFPPPAARGPCKMADKVPVPRQVARTLGRVRLQCPVEGDPPL 60
Db 1 MTPSPLLLLLPPLLGAFPPPAARGPCKMADKVPVPRQVARTLGRVRLQCPVEGDPPL 60

QY 61 TMWTKDGRTHSGWSRFRVLPQGLKVKOVEREDAGVYVCKATNGFGSLSVNYTLVLLDDI 120
Db 61 TMWTKDGRTHSGWSRFRVLPQGLKVKOVEREDAGVYVCKATNGFGSLSVNYTLVLLDDI 120

QY 121 SPGKESLGPDDSSGGQEDPASQOWARPRFTQPSKMRRVIAAPVGS SVRLKCVASGHPRP 180
Db 121 SPGKESLGPDDSSGGQEDPASQOWARPRFTQPSKMRRVIAAPVGS SVRLKCVASGHPRP 180

QY 181 DITWMKDDQALTRPEAAERPKKKWTL SLKNLRPEDSGKYTCRVSNRAGAINATYKVDVIQ 240
Db 181 DITWMKDDQALTRPEAAERPKKKWTL SLKNLRPEDSGKYTCRVSNRAGAINATYKVDVIQ 240

QY 241 RTRSKPVLGTGTHPVNTVDFGTTSFQCKVRS DVKVIQWLKRVYGAEGRHNSTIDVG 300
241 RTRSKPVLGTGTHPVNTVDFGTTSFQCKVRS DVKVIQWLKRVYGAEGRHNSTIDVG 300

Db 241 RTRSKPVLGTHPVNTYVDFGTTSFQCKVRSDVKPVIQWLKRVEYGAEGRHNSTIDVG 300
QY 301 QKFVVLPTGDVWSRPDGSYLNKPL 324
Db 301 QKFVVLPTGDVWSRPDGSYLNKLL 324
RESULT 10
AAU81961
ID AAU81961 standard; protein; 504 AA.
XX
AC AAU81961;
XX
DT 09-APR-2002 (first entry)
XX
DE Human PRO943.
XX
KW Human; PRO; antiinflammatory; ophthalmological; vasotropic;
KW retinal cell injury; ocular disease; retinitis pigmentosa;
KW macular degeneration; retinal detachment; retinal tear; retinopathy;
KW retinal degenerative disease; macular hole; degenerative myopia;
KW acute retinal necrosis syndrome; traumatic chorioretinopathy;
KW Purtscher's retinopathy; oedema; ischaemic condition;
KW retinal vision occlusion; collagen vascular disease;
KW thrombocytopaenic purpura; uveitis; retinal vasculitis; Eales disease;
KW systemic lupus erythematosus; environmental trauma.
XX
OS Homo sapiens.
XX WO200109327-A2.
XX
XX 08-FEB-2001.
PD 28-JUL-2000; 2000WO-US020710.
PF
XX
PR 28-JUL-1999; 99US-0146222P.
PR 13-SEP-1999; 99WO-US020944.
PR 15-SEP-1999; 99WO-US021090.
PR 29-NOV-1999; 99WO-US028214.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028301.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 15-MAR-2000; 2000WO-US006884.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
XX
PA (GETH) GENENTECH INC.
XX
PI Ashkenazi AJ, Baker KP, Goddard A, Godowski PJ, Gurney AL;
PI Kljavin IJ, Lafleur M, Mark MR, Marsters SA, Pitti RM, Watanabe CK;
PI Wood WI;
XX
DR WPI: 2002-130120/17.
DR N-PSDB; ABK28591.
XX
PT Promoting survival of retinal cells, or delaying or preventing retinal
PT cell injury or death, by contacting retinal cells with PRO175, 220, 216,
PT 243, 306, 346, 322, 536, 943, 840, 828, 826, 1068 or PRO1132 polypeptide.
XX
XX
PS Claim 44; Fig 19; 152pp; English.
XX
CC The invention relates to promoting the survival of retinal cells, or
CC delaying or preventing retinal cell injury or death, by contacting the
CC retinal cells with the polypeptide such as PRO175, PRO220, PRO216,
CC PRO243, PRO306, PRO346, PRO322, PRO536, PRO943, PRO840, PRO828, PRO826,
CC PRO1068 or PRO1132 polypeptide. Also included are the nucleic acids
CC encoding the PRO proteins, a vector comprising the nucleic acid, a host

CC cell comprising the vector, and anti-PRO antibody. The PRO proteins are
CC useful for promoting survival of retinal cells (retinal neurons such as
CC retinal ganglion cells, displaced retinal neurons or bipolar neurons, rod
CC displaced amacrine cells, horizontal neurons or bipolar neurons, rod
CC photoreceptors, or supportive cells such as Muller cells or pigment
CC epithelial cells), or delaying or preventing retinal cell injury or death
CC caused by ocular disease (which is or is associated with retinitis
CC pigmentosa, macular degeneration, retinal detachment, retinal tear,
CC retinopathy, retinal degenerative disease, macular hole, degenerative
CC myopia, acute retinal necrosis syndrome, traumatic chorioretinopathy or
CC contusion, Purtscher's retinopathy, oedema, an ischaemic condition,
CC central or branch retinal vision occlusion, collagen vascular disease,
CC thrombocytopaenic purpura, uveitis, retinal vasculitis, occlusion
CC associated with Eales disease or systemic lupus erythematosus), retinal
CC injury or environmental trauma. The retinal cell injury or death is
CC delayed or prevented by substantially not causing angiogenesis or
CC mitogenesis. The present sequence represents a PRO protein
XX
SQ Sequence 504 AA;
Query Match 99.4%; Score 1707; DB 5; Length 504;
Best Local Similarity 99.7%; Pred. No. 1.5e-117;
Matches 323; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 MTPSPULLLLLPPLLGAFPAAARGPVKMADKVPVROVARLGRTVRLQCPVEGDPPL 60
Db 1 MTPSPULLLLLPPLLGAFPAAARGPVKMADKVPVROVARLGRTVRLQCPVEGDPPL 60
QY 61 TMTWKDGRTHSGWSRFRVLPOGLKVKOVEREDAGVYVCKATNGFGLSVNYYTLVVLDDI 120
Db 61 TMTWKDGRTHSGWSRFRVLPOGLKVKOVEREDAGVYVCKATNGFGLSVNYYTLVVLDDI 120
QY 121 SPGKESLGPDDSSSGQEDPASQOWARPRFTOPSKMRRRVIAAPVSSVRLKCVASGHPRP 180
Db 121 SPGKESLGPDDSSSGQEDPASQOWARPRFTOPSKMRRRVIAAPVSSVRLKCVASGHPRP 180
QY 181 DITWMKDQALTRPEAAEPRKKWTLSLKNLRPEDSGKXTCRVSNRAGAINATYKVDVIQ 240
Db 181 DITWMKDQALTRPEAAEPRKKWTLSLKNLRPEDSGKXTCRVSNRAGAINATYKVDVIQ 240
QY 241 RTRSKPVLGTHPVNTYVDFGTTSFQCKVRSDVKPVIQWLKRVEYGAEGRHNSTIDVG 300
Db 241 RTRSKPVLGTHPVNTYVDFGTTSFQCKVRSDVKPVIQWLKRVEYGAEGRHNSTIDVG 300
QY 301 QKFVVLPTGDVWSRPDGSYLNKPL 324
Db 301 QKFVVLPTGDVWSRPDGSYLNKLL 324
RESULT 11
ABU57994
ID ABU57994 standard; protein; 504 AA.
XX
AC ABU57994;
XX
DT 14-APR-2003 (first entry)
XX
DE Human PRO polypeptide #26.
XX
KW Human; PRO; cytoslatic; tumour; cancer; breast; lung; stomach; liver;
KW horse; cow; dog; cat; sheep; pig; goat; rabbit; ADEPT;
KW antibody-dependent enzyme mediated prodrug therapy.
OS Homo sapiens.
XX
PN US2003027163-A1.
XX
PD 06-FEB-2003.
XX
PF 15-NOV-2001; 2001US-00997666.
XX
PR 16-JUN-1997; 97US-0049787P.
PR 17-OCT-1997; 97US-0062250P.

PR 05-NOV-1997; 97WO-US020069.
PR 12-NOV-1997; 97US-0065186P.
PR 13-NOV-1997; 97US-0065311P.
PR 24-NOV-1997; 97US-0066770P.
PR 25-FEB-1998; 98US-0075945P.
PR 20-MAR-1998; 98US-0078910P.
PR 28-APR-1998; 98US-0083322P.
PR 07-MAY-1998; 98US-0084600P.
PR 28-MAY-1998; 98US-0087106P.
PR 02-JUN-1998; 98US-0087607P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088021P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088026P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088030P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088734P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088742P.
PR 10-JUN-1998; 98US-0088810P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088858P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089440P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089532P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089599P.
PR 17-JUN-1998; 98US-0089600P.
PR 17-JUN-1998; 98US-0089601P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089801P.
PR 18-JUN-1998; 98US-0089907P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089947P.
PR 19-JUN-1998; 98US-0089948P.
PR 19-JUN-1998; 98US-0089952P.
PR 19-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 23-JUN-1998; 98US-0090349P.
PR 23-JUN-1998; 98US-0090355P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090431P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090445P.
PR 24-JUN-1998; 98US-0090472P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 24-JUN-1998; 98US-0090557P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-0090862P.

PR 26-JUN-1998; 98US-0090863P.
PR 01-JUL-1998; 98US-0091360P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091519P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091633P.
PR 02-JUL-1998; 98US-0091646P.
PR 02-JUL-1998; 98US-0091673P.
PR 07-JUL-1998; 98US-0091978P.
PR 07-JUL-1998; 98US-0091982P.
PR 09-JUL-1998; 98US-0092182P.
PR 10-JUL-1998; 98US-0092472P.
PR 20-JUL-1998; 98US-0093339P.
PR 30-JUL-1998; 98US-0094651P.
PR 04-AUG-1998; 98US-0095282P.
PR 04-AUG-1998; 98US-0095285P.
PR 04-AUG-1998; 98US-0095301P.
PR 04-AUG-1998; 98US-0095302P.
PR 04-AUG-1998; 98US-0095318P.
PR 04-AUG-1998; 98US-0095321P.
PR 04-AUG-1998; 98US-0095325P.
PR 10-AUG-1998; 98US-0095916P.
PR 10-AUG-1998; 98US-0095929P.
PR 10-AUG-1998; 98US-0096012P.
PR 11-AUG-1998; 98US-0096143P.
PR 11-AUG-1998; 98US-0096146P.
PR 12-AUG-1998; 98US-0096329P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096768P.
PR 17-AUG-1998; 98US-0096773P.
PR 17-AUG-1998; 98US-0096791P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096894P.
PR 17-AUG-1998; 98US-0096895P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096950P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0096960P.
PR 19-AUG-1998; 98US-0097141P.
PR 20-AUG-1998; 98US-0097218P.
PR 24-AUG-1998; 98US-0097661P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0097978P.
PR 26-AUG-1998; 98US-0097986P.
PR 26-AUG-1998; 98US-0098014P.
PR 31-AUG-1998; 98US-0098525P.
PR 16-SEP-1998; 98US-0100634P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100858P.
PR 17-SEP-1998; 98WO-US019437.
PR 07-OCT-1998; 98WO-US021141.
PR 01-DEC-1998; 98WO-US025108.
PR 22-DEC-1998; 98US-0113296P.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 12-MAR-1999; 99US-0123957P.
PR 02-JUN-1999; 99WO-US012252.
PR 23-JUN-1999; 99US-0141037P.
PR 07-JUL-1999; 99US-0143048P.
PR 20-JUL-1999; 99US-0144758P.
PR 26-JUL-1999; 99US-0145698P.
PR 28-JUL-1999; 99US-0146222P.

PR 17-AUG-1999; 99US-0149396P.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 08-OCT-1999; 99US-0158663P.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028301.
PR 01-DEC-1999; 99WO-US028634.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 02-MAR-2000; 2000WO-US005004.
PR 10-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 30-MAR-2000; 2000WO-US008439.
PR 15-MAY-2000; 2000WO-US013358.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014941.
PR 30-MAY-2000; 2000WO-US015264.
PR 02-JUN-2000; 2000WO-US015264.
PR 23-JUN-2000; 2000US-0213637P.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 07-SEP-2000; 2000US-0230978P.

Query Match 99.4%; Score 1707; DB 6; Length 504;
Best Local Similarity 99.7%; Pred. No. 1.5e-117;
Matches 323; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MTPSPLLLLLPPLLGAFPFAAARGPPKADKVPVPRQVARIGRVRLQCPVEGDPPL 60
DB 1 MTPSPLLLLLPPLLGAFPFAAARGPPKADKVPVPRQVARIGRVRLQCPVEGDPPL 60
QY 61 TMWTKDGRTHSGWSRFRVLPQGLKVQVEREDAGVYVCKATNGFGSLSVNYTLVLDI 120
DB 61 TMWTKDGRTHSGWSRFRVLPQGLKVQVEREDAGVYVCKATNGFGSLSVNYTLVLDI 120
QY 121 SPGKESLGPDSGGQEDPASQOWARPRFTQPSKMRRRVIARPVGSSVFLKCVASGHRP 180
DB 121 SPGKESLGPDSGGQEDPASQOWARPRFTQPSKMRRRVIARPVGSSVFLKCVASGHRP 180
QY 181 DITWMKDDQALTRPEAAEPRKKWTLSLKNLRPEDSGKYTCRVSNRAGINATYKVDVIQ 240
DB 181 DITWMKDDQALTRPEAAEPRKKWTLSLKNLRPEDSGKYTCRVSNRAGINATYKVDVIQ 240
QY 241 RTRSKPVLGTGHPVNTTVDVFGGTSFQCKVRSVDYKPIQWLKRVEYGAEGRHNSTIDVG 300
DB 241 RTRSKPVLGTGHPVNTTVDVFGGTSFQCKVRSVDYKPIQWLKRVEYGAEGRHNSTIDVG 300
QY 301 QKFVVLPTGDVWSRPDGSYLKPL 324
DB 301 QKFVVLPTGDVWSRPDGSYLKPL 324

RESULT 12
ABU59072
ID ABU59072 standard; protein; 504 AA.
XX
AC ABU59072;
XX
DT 28-APR-2003 (first entry)
XX
DE Novel human secreted or transmembrane protein PRO943.
XX
KW Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing;

KW cardiac insufficiency disorder; cancer; tumour; immune response;
KW adrenal cortical capillary endothelial growth; c-fos induction;
KW vascular endothelial growth factor inhibition; VEGF inhibition;
KW endothelial cell growth inhibitor; T-lymphocytes stimulation;
KW retinal neurons cell survival; rod photoreceptor cell survival;
KW retinal disorder; retinitis pigmentosum; kidney disorder;
KW mammalian kidney mesangial cell proliferation; Berger disease;
KW dermatitis; herpeticiformis; Crohn's disease; chondrocyte proliferation;
KW chondrocyte redifferentiation; sports injury; arthritis.
XX
OS Homo sapiens.
XX
PN US2002132252-A1.
XX
PD 19-SEP-2002.
XX
PE 14-NOV-2001; 2001US-00990442.
XX
PR 16-JUN-1997; 97US-0049787P.
PR 17-OCT-1997; 97US-0062250P.
PR 05-NOV-1997; 97WO-US020069.
PR 12-NOV-1997; 97US-0065186P.
PR 13-NOV-1997; 97US-0065311P.
PR 24-NOV-1997; 97US-0066770P.
PR 25-FEB-1998; 98US-0075945P.
PR 20-MAR-1998; 98US-0078910P.
PR 28-APR-1998; 98US-0083322P.
PR 07-MAY-1998; 98US-0084600P.
PR 28-MAY-1998; 98US-0087106P.
PR 02-JUN-1998; 98US-0087607P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088021P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088026P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088030P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 05-JUN-1998; 98US-0088655P.
PR 09-JUN-1998; 98US-0088734P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088742P.
PR 10-JUN-1998; 98US-0088810P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088858P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089440P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089532P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089599P.
PR 17-JUN-1998; 98US-0089600P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089801P.
PR 18-JUN-1998; 98US-0089907P.
PR 18-JUN-1998; 98US-0089908P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98WO-US019437.
PR 07-OCT-1998; 98WO-US021141.
PR 01-DEC-1998; 98WO-US025108.
PR 05-JAN-1999; 99WO-US000106.

PR 08-MAR-1999; 99WO-US005028.
PR 02-JUN-1999; 99WO-US012252.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028301.
PR 01-DEC-1999; 99WO-US028634.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 06-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 30-MAR-2000; 2000WO-US008439.
PR 15-MAY-2000; 2000WO-US013358.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000WO-US030952.
PR 01-DEC-2000; 2000WO-US032678.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-JUN-2001; 2001WO-US017800.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 28-AUG-2001; 2001US-00941992.
XX
PA (GETH) GENENTECH INC.
XX
PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
PI Ferrara N, Fong S, Gerber H, Gerritsen MB, Goddard A, Godowski PJ;
PI Grimaldi JC, Gurney AL, Kijavini IJ, Napier MA, Pan J, Paoni NF;
PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;
PI Zhang Z;
XX
XX WPI; 2003-247083/24.
DR N-PSDB; ABX80197.
XX
PT Novel isolated PRO polypeptides e.g., PRO826, PRO1068, PRO1184, PRO1346
PT and PRO1375, which stimulate proliferation of stimulated T-lymphocytes
PT are therapeutically useful for enhancing immune response and in cancer
PT treatments.
XX
PS Claim 12; Fig 70; 648bp; English.
XX
XX The invention describes an isolated human PRO polypeptide. The PRO
CC polypeptides are useful in detecting PRO polypeptides in a sample, in
CC linking a bioactive molecule to a cell expressing a PRO polypeptide, and
CC in modulating at least one biological activity of a cell expressing a PRO
CC polypeptide. PRO1312 stimulates hypertrophy of neonatal heart and is thus
CC useful for treating cardiac insufficiency disorders. PRO1154 and PRO1186
CC stimulate adrenal cortical capillary endothelial growth, and PRO536,
CC PRO943, PRO828, PRO826, PRO1068 or PRO535, PRO826, PRO819, PRO1126,
CC PRO1360 and PRO1387 induce c-fos in endothelial cells, and are thus
CC useful for treating conditions or disorders where angiogenesis would be
CC beneficial, e.g. wound healing and antagonist of this polypeptide are
CC useful for treating cancerous tumours. PRO812 inhibits vascular
CC endothelial growth factor (VEGF) stimulated proliferation of endothelial
CC cells and is thus useful for inhibiting endothelial cell growth in
CC mammals which would be beneficial in inhibiting tumour growth. PRO826,
CC PRO1068, PRO1184, PRO1346 and PRO1375 stimulate proliferation of

CC stimulated T-lymphocytes and are therapeutically useful for enhancing
CC immune response. PRO828, PRO826, PRO1068 or PRO1132 enhance survival of
CC retinal neurons cells (PRO1132 is also enhances survival/proliferation of
CC rod photoreceptor cells) and therefore are useful for treating retinal
CC disorders of injuries, e.g. retinitis pigmentosum, AMD. PRO819, PRO813
CC and PRO11066 induce proliferation of mammalian kidney mesangial cells,
CC and therefore are useful for treating kidney disorders associated with
CC decreased mesangial cell function such as Berger disease or other
CC nephropathies associated with dermatitis, herpeticiformis or Crohn's
CC disease. PRO1310, PRO844, PRO1312, PRO1192 and PRO1387 induce the
CC proliferation and/or redifferentiation of chondrocytes in culture and are
CC thus useful for treating sports injuries, and arthritis. This is the
CC amino acid sequence of a novel human PRO protein
XX
SQ Sequence 504 AA;

Query Match 99.4%; Score 1707; DB 6; Length 504;
Best Local Similarity 99.7%; Pred. No. 1.5e-117;
Matches 323; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MTPSPLLLLLPPLLGAFPAAARGPWKADKVPVROVARLGRTVRLQCPVEGDPPL 60
Db 1 MTPSPLLLLLPPLLGAFPAAARGPWKADKVPVROVARLGRTVRLQCPVEGDPPL 60

QY 61 TMWTKDGRTHSGWSRFRVLPOGLKVKOVEREDAGVYVCKATNGFSLSVNYTLVLDI 120
Db 61 TMWTKDGRTHSGWSRFRVLPOGLKVKOVEREDAGVYVCKATNGFSLSVNYTLVLDI 120

QY 121 SPGKESIGPDSGGQEDPASQOWARPRETOPSKMRRRVIARPVGSSVRLKCVASGHRP 180
Db 121 SPGKESIGPDSGGQEDPASQOWARPRETOPSKMRRRVIARPVGSSVRLKCVASGHRP 180

QY 181 DITWTKDDQALTRPEAAEPRKKKWTLSLKNLRPEDSGKYTCRVSNRAGAINATYKVDVIQ 240
Db 181 DITWTKDDQALTRPEAAEPRKKKWTLSLKNLRPEDSGKYTCRVSNRAGAINATYKVDVIQ 240

QY 241 RTRSKPVLGTTHPVNTTVDDEGTTSPQCKVRSVDKPVIOWLKRVYGAEGRHNSTIDVG 300
Db 241 RTRSKPVLGTTHPVNTTVDDEGTTSPQCKVRSVDKPVIOWLKRVYGAEGRHNSTIDVG 300

QY 301 QKFVVLPTGDVWSRPDGSYLNKPL 324
Db 301 QKFVVLPTGDVWSRPDGSYLNKPL 324

RESULT 13
ABU82584
ID ABU82584 standard; protein; 504 AA.
XX
XX AC ABU82584;
XX
XX DT 26-JUN-2003 (first entry)
XX
XX DE Human secreted/transmembrane protein PRO943.
XX
XX KW Human; PRO; secreted protein; transmembrane protein;
KW cardiac insufficiency disorders; angiogenesis; wound healing;
KW cancerous tumour; immune response; retinal disorder; sight loss;
KW retinitis pigmentosum; age-related macular degeneration; AMD;
KW kidney disorder; Berger disease; nephropathy; dermatitis; herpeticiformis;
KW Crohn's disease; sports injury; arthritis.
XX
OS Homo sapiens.
XX
XX PN US2003032023-A1.
XX
XX PD 13-FEB-2003.
XX
XX PF 14-NOV-2001; 2001US-00990711.
XX
XX PR 16-JUN-1997; 97US-0049787P.
PR 17-OCT-1997; 97US-0062250P.
PR 05-NOV-1997; 97WO-US020069.

PR 12-NOV-1997; 97US-0065186P.
PR 13-NOV-1997; 97US-0065311P.
PR 24-NOV-1997; 97US-0066770P.
PR 25-FEB-1998; 98US-0075945P.
PR 20-MAR-1998; 98US-0078910P.
PR 28-APR-1998; 98US-0083322P.
PR 07-MAY-1998; 98US-0084600P.
PR 28-MAY-1998; 98US-0087106P.
PR 02-JUN-1998; 98US-0087607P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088021P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088026P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088030P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
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PR 10-JUN-1998; 98US-0088742P.
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PR 10-JUN-1998; 98US-0088824P.
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PR 11-JUN-1998; 98US-0088861P.
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PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089440P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
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PR 17-JUN-1998; 98US-0089600P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089801P.
PR 18-JUN-1998; 98US-0089907P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089947P.
PR 19-JUN-1998; 98US-0089948P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 23-JUN-1998; 98US-0090349P.
PR 23-JUN-1998; 98US-0090355P.
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PR 24-JUN-1998; 98US-0090540P.
PR 24-JUN-1998; 98US-0090542P.
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PR 25-JUN-1998; 98US-0090676P.
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PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
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PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.

PR 01-JUL-1998; 98US-0091360P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091519P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091633P.
PR 02-JUL-1998; 98US-0091646P.
PR 02-JUL-1998; 98US-0091673P.
PR 07-JUL-1998; 98US-0091978P.
PR 07-JUL-1998; 98US-0091982P.
PR 09-JUL-1998; 98US-0092182P.
PR 10-JUL-1998; 98US-0092472P.
PR 20-JUL-1998; 98US-0093339P.
PR 30-JUL-1998; 98US-0094651P.
PR 04-AUG-1998; 98US-0095282P.
PR 04-AUG-1998; 98US-0095285P.
PR 04-AUG-1998; 98US-0095301P.
PR 04-AUG-1998; 98US-0095302P.
PR 04-AUG-1998; 98US-0095318P.
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PR 04-AUG-1998; 98US-0095325P.
PR 10-AUG-1998; 98US-0095916P.
PR 10-AUG-1998; 98US-0095929P.
PR 10-AUG-1998; 98US-0096012P.
PR 11-AUG-1998; 98US-0096143P.
PR 11-AUG-1998; 98US-0096146P.
PR 12-AUG-1998; 98US-0096329P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096768P.
PR 17-AUG-1998; 98US-0096773P.
PR 17-AUG-1998; 98US-0096791P.
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PR 17-AUG-1998; 98US-0096894P.
PR 17-AUG-1998; 98US-0096895P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096950P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0096960P.
PR 18-AUG-1998; 98US-0097022P.
PR 19-AUG-1998; 98US-0097141P.
PR 20-AUG-1998; 98US-0097218P.
PR 24-AUG-1998; 98US-0097661P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0097978P.
PR 26-AUG-1998; 98US-0097979P.
PR 26-AUG-1998; 98US-0097986P.
PR 31-AUG-1998; 98US-0098014P.
PR 31-AUG-1998; 98US-0098525P.
PR 16-SEP-1998; 98US-0100634P.
PR 16-SEP-1998; 98US-0100858P.
PR 17-SEP-1998; 98US-0100858P.
PR 17-SEP-1998; 98US-0100858P.
PR 07-OCT-1998; 98US-0100858P.
PR 01-DEC-1998; 98US-0113296P.
PR 22-DEC-1998; 98US-0113296P.
PR 05-JAN-1999; 99US-0113296P.
PR 08-MAR-1999; 99US-0113296P.
PR 12-MAR-1999; 99US-0123957P.
PR 02-JUN-1999; 99US-0123957P.
PR 23-JUN-1999; 99US-0141037P.
PR 07-JUL-1999; 99US-0143048P.
PR 20-JUL-1999; 99US-0144758P.
PR 26-JUL-1999; 99US-0145698P.
PR 28-JUL-1999; 99US-0146222P.
PR 17-AUG-1999; 99US-0149396P.

PR 18-FEB-2000; 2000WO-US004341.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 30-MAR-2000; 2000WO-US008439.
PR 15-MAY-2000; 2000WO-US013358.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000WO-US030952.
PR 01-DEC-2000; 2000WO-US032678.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-JUN-2001; 2001WO-US017800.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 28-AUG-2001; 2001US-00941992.

(GETH) GENENTECH INC.

XX Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL,
PI Ferrara N, Fong S, Gerber H, Gertitsen ME, Goddard A, Godowski PJ,
PI Grimaldi JC, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoni NF,
PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI,
PI Zhang Z;

XX WPI; 2003-288106/28.
DR N-PSDB; ABX90175.

XX New transmembrane polypeptides and nucleic acids encoding the
PT polypeptides, useful in gene therapy, in chromosome identification, as
PT chromosome markers, or in generating probes.

PS Claim 12; Fig 70; 650pp; English.

XX The invention discloses isolated PRO secreted/transmembrane polypeptides
CC comprising a sequence without signal peptide and the nucleic acid
CC encoding them. The polypeptides can be used to raise antibodies that
CC specifically bind to the PRO polypeptide, for linking a bioactive
CC molecule to a cell expressing a PRO protein and for modulating at least
CC one biological activity of a cell. The PRO polypeptides or
CC polynucleotides are also useful in gene therapy, in chromosome
CC identification, as chromosome markers, or in generating probes. The PRO
CC polypeptides are useful as molecular markers for protein electrophoresis,
CC and the isolated nucleic acids may be used for recombinantly expressing
CC those markers. The PRO polypeptides and nucleic acids may also be used in
CC tissue typing. Anti-PRO antibodies are useful in diagnostic assays for
CC PRO, and in affinity purification of PRO from recombinant cell culture or
CC natural sources. The sequences presented in ABU60478-ABU60624 are the PRO
CC polynucleotides of the invention. Note: The sequence data for this patent
CC is also available in electronic format from USPTO at
CC seqdata.uspto.gov/sequence.html

XX Sequence 504 AA;

Query Match 99.4%; Score 1707; DB 6; Length 504;
Best Local Similarity 99.7%; Pred. No. 1.5e-117;
Matches 323; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MTPSPLLLLLPLLLGAFPPAAARGPVKMADKVVPRQVARLGRVRLQCPVEGDDPPPL 60
Db 1 MTPSPLLLLLPLLLGAFPPAAARGPVKMADKVVPRQVARLGRVRLQCPVEGDDPPPL 60
QY 61 TMWTKDGRTIHSGWSRFRVLPQGLKVKQVEREDAGVYVCKATNGFGLSVNYTLVLLDDI 120

Db ||||| 61 TMWTKDGRTIHSGWSRFRVLPQGLKVKQVEREDAGVYVCKATNGFGLSVNYTLVLLDDI 120
QY 121 SPGKESLGPSSSGGQEDPASQOWARPRFTQPSKMRRIARPVGSSVRLKCVASGHPRP 180
Db 121 SPGKESLGPSSSGGQEDPASQOWARPRFTQPSKMRRIARPVGSSVRLKCVASGHPRP 180
QY 181 DITWTKDDQALTRPEAAEPRKKWTLSTLKNLRPEDSGKYTCRVSNRAGAINATYKVDVIQ 240
Db 181 DITWTKDDQALTRPEAAEPRKKWTLSTLKNLRPEDSGKYTCRVSNRAGAINATYKVDVIQ 240
QY 241 RTRSKPVLTGTHPVNTTVDFGGTTSFQCKKVRSDVKPVIQWLKRVEYGAEGRHNGTIDVGG 300
Db 241 RTRSKPVLTGTHPVNTTVDFGGTTSFQCKKVRSDVKPVIQWLKRVEYGAEGRHNGTIDVGG 300
QY 301 QKRVVLPDGDVWSRPDGSYLNKPL 324
Db 301 QKRVVLPDGDVWSRPDGSYLNKPL 324

RESULT 15

ID ABU13885 standard; protein; 504 AA.

XX ABU13885;

XX 26-FEB-2003 (first entry)

DE Human PRO943 polypeptide.

XX Human; PRO polypeptide; secreted protein; transmembrane protein;
KW genetic disorder; antibacterial; immunosuppressive.

XX Homo sapiens.

XX US2002103125-A1.

XX 01-AUG-2002.

XX 20-NOV-2001; 2001US-00989731.

XX 16-JUN-1997; 97US-0049787P.
PR 17-OCT-1997; 97US-0062250P.
PR 05-NOV-1997; 97WO-US020069.
PR 12-NOV-1997; 97US-0065186P.
PR 13-NOV-1997; 97US-0065311P.
PR 24-NOV-1997; 97US-0066770P.
PR 25-FEB-1998; 98US-0075945P.
PR 20-MAR-1998; 98US-0078910P.
PR 28-APR-1998; 98US-0083322P.
PR 07-MAY-1998; 98US-0084600P.
PR 28-MAY-1998; 98US-0087106P.
PR 02-JUN-1998; 98US-0087607P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088021P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088026P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088030P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088734P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088742P.
PR 10-JUN-1998; 98US-0088810P.

PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088858P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089440P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089532P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089599P.
PR 17-JUN-1998; 98US-0089600P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089801P.
PR 18-JUN-1998; 98US-0089907P.
PR 18-JUN-1998; 98US-0089908P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98WO-US019437.
PR 07-OCT-1998; 98WO-US021141.
PR 01-DEC-1998; 98WO-US025108.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 02-JUN-1999; 99WO-US012252.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028301.
PR 16-DEC-1999; 99WO-US028634.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 06-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 30-MAR-2000; 2000WO-US008439.
PR 15-MAY-2000; 2000WO-US013358.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000WO-US030952.
PR 01-DEC-2000; 2000WO-US032678.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-JUN-2001; 2001WO-US017800.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 28-AUG-2001; 2001US-00941992.
XX
PA (GETH) GENENTECH LTD.
XX
PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL,
PI Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ,
PI Grimaldi JC, Gurney AL, Kijavini IJ, Napier MA, Pan J, Paoni NF,
PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI,
PI Zhang Z;
XX
DR WPI; 2003-102117/09.
DR N-PSDB; ABX64021.
XX

PT Novel secreted and transmembrane polypeptide for modulating biological
PT activity of cell expressing the polypeptide, identifying agonists or
PT antagonists of polypeptide, and as molecular weight markers.

PS Claim 12; Fig 70; 649pp; English.

XX The present invention relates to the isolation of novel human PRO
CC polypeptides, and the polynucleotide sequences encoding them. The PRO
CC polypeptides are secreted and transmembrane proteins. The PRO
CC polypeptides are useful for detecting other PRO polypeptides, for linking
CC bioactive molecules to cells expressing PRO polypeptides, for modulating
CC biological activities of cells expressing PRO polypeptides, and for for
CC identifying agonists or antagonists. The polynucleotide sequences
CC encoding PRO polypeptides are useful as hybridisation probes, in
CC chromosome and gene mapping, in the generation of antisense RNA and DNA,
CC in the preparation of PRO polypeptides, for generating transgenic animals
CC or knockout animals, to construct hybridisation probes for mapping the
CC gene which encodes the PRO polypeptide, and for the genetic analysis of
CC individuals with genetic disorders, in gene therapy, for chromosome
CC identification, as chromosome markers, and for generating probes for PCR,
CC Northern analysis, Southern analysis and Western analysis. ABU13860-
CC ABU14006 represent the human PRO polypeptides of the invention. Note: The
CC sequence data for this patent was obtained in electronic format directly
CC from the USPTO web site at seqdata.uspto.gov/psipsideentry.html
XX

SQ Sequence 504 AA;

Query Match 99.4%; Score 1707; DB 6; Length 504;
Best Local Similarity 99.7%; Pred. No. 1.5e-117;
Matches 323; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MTPSPLLLLLPPLLIGAFPPAAARGPMPADKVPVPRQVRLGRIVRLQCPVEGDPPL 60
Db 1 MTPSPLLLLLPPLLIGAFPPAAARGPMPADKVPVPRQVRLGRIVRLQCPVEGDPPL 60
QY 61 TMWTKDGRITHSWRSFRVLPQGLKVKQVEREDAGVYVCKATNGFSLSVNTLVLDI 120
Db 61 TMWTKDGRITHSWRSFRVLPQGLKVKQVEREDAGVYVCKATNGFSLSVNTLVLDI 120
QY 121 SPGESLGPSSSGQEDPASQOWARPRPTQSKMRRIARPVGSSVRLKCVASGHRP 180
Db 121 SPGESLGPSSSGQEDPASQOWARPRPTQSKMRRIARPVGSSVRLKCVASGHRP 180
QY 181 DITWMDQALTRPEAAERPKKWTLSLKNLRPDSGKYTCRVSNRAGAINATYKVDVIQ 240
Db 181 DITWMDQALTRPEAAERPKKWTLSLKNLRPDSGKYTCRVSNRAGAINATYKVDVIQ 240
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Db 241 RTRSKPVLTGTHPVNTTVDGFGTTSFQCKVRSVDKPVIOWLKRVEGAEGRHNSTIDVG 300
QY 301 QKFVVLPTGDVWSRPDGSYLKPL 324
Db 301 QKFVVLPTGDVWSRPDGSYLKPL 324

Search completed: February 2, 2005, 18:22:43
Job time : 163 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: February 2, 2005, 18:19:11 ; Search time 24 Seconds
(without alignments)
895.293 Million cell updates/sec

Title: US-10-613-413B-8
Perfect score: 1717
Sequence: 1 MTPSPLLLLPPLLGAFP.....VLPTGDVWSRPDGSYLNKPL 324

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 478139 seqs, 66318000 residues

Total number of hits satisfying chosen parameters: 478139

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
1: /cgn2_6/ptodata/1/iaa/5A_COMB.pep:*
2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep:*
3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep:*
4: /cgn2_6/ptodata/1/iaa/6B_COMB.pep:*
5: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/1/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1560	90.9	373	4	US-09-823-038A-60
2	1560	90.9	529	3	US-09-383-586-31
3	1560	90.9	529	4	US-09-823-038A-31
4	1458	84.9	322	3	US-09-383-586-33
5	1458	84.9	322	4	US-09-823-038A-33
6	1035.5	60.3	439	3	US-09-383-586-32
7	1035.5	60.3	439	4	US-09-823-038A-32
8	408.5	23.8	801	3	US-09-383-630-6
9	393	22.9	806	3	US-09-383-630-3
10	382.5	22.3	802	3	US-09-173-151A-33
11	380	22.1	816	1	US-07-640-029-1
12	379.5	22.1	355	1	US-08-471-570-14
13	379.5	22.1	643	1	US-08-471-570-6
14	379.5	22.1	769	1	US-08-471-570-8
15	375.5	21.9	821	2	US-08-451-822A-13
16	375.5	21.9	821	3	US-08-323-430-13
17	371.5	21.6	622	4	US-09-499-846-2
18	371.5	21.6	820	1	US-07-921-807B-3
19	371.5	21.6	820	1	US-08-441-944A-3
20	371.5	21.6	820	3	US-08-439-992A-1
21	368.5	21.5	351	5	PCT-US93-05703-2
22	367.5	21.4	817	1	US-07-640-029-2
23	367.5	21.4	822	1	US-07-921-807B-4
24	367.5	21.4	822	1	US-08-459-296-2
25	367.5	21.4	822	1	US-08-441-944A-4
26	367.5	21.4	822	2	US-08-451-822A-12
27	367.5	21.4	822	3	US-08-439-992A-2

28	367.5	21.4	822	3	US-08-323-430-12	Sequence 12, Appl
29	366.5	21.3	822	1	US-07-997-133-1	Sequence 1, Appli
30	357.5	20.8	820	1	US-08-166-717D-6	Sequence 6, Appli
31	350	20.4	126	3	US-09-383-586-30	Sequence 30, Appl
32	350	20.4	126	4	US-09-823-038A-30	Sequence 5, Appli
33	308	17.9	300	1	US-07-640-029-5	Sequence 5, Appli
34	308	17.9	300	3	US-08-439-992A-5	Sequence 4, Appli
35	308	17.9	525	4	US-09-499-846-4	Sequence 8, Appli
36	308	17.9	525	4	US-09-499-846-8	Sequence 4, Appli
37	307	17.9	526	1	US-08-471-570-4	Sequence 10, Appl
38	307	17.9	652	1	US-08-471-570-10	Sequence 7, Appli
39	306	17.8	302	1	US-08-441-944A-7	Sequence 12, Appl
40	306	17.8	240	1	US-08-471-570-12	Sequence 6, Appli
41	305	17.8	302	1	US-07-640-029-6	Sequence 8, Appli
42	304	17.7	302	1	US-07-921-807B-8	Sequence 8, Appli
43	304	17.7	302	1	US-08-441-944A-8	Sequence 6, Appli
44	304	17.7	302	3	US-08-439-992A-6	Sequence 12, Appl
45	304	17.7	302	3	US-08-439-992A-6	Sequence 6, Appli

ALIGNMENTS

RESULT 1																
US-09-823-038A-60																
; Sequence 60, Application US/09823038A																
; Patent No. 6797271																
; GENERAL INFORMATION:																
; APPLICANT: Strachan, Lorna																
; APPLICANT: Sleeman, Matthew																
; APPLICANT: Abernethy, Nevlin																
; APPLICANT: Orrust, Rene																
; APPLICANT: Kumble, Anand																
; APPLICANT: Murison, Greg																
; TITLE OF INVENTION: Compositions Isolated From Stromal Cells																
; TITLE OF INVENTION: and Methods For Their Use																
; FILE REFERENCE: 11000.1037c3																
; CURRENT APPLICATION NUMBER: US/09/823, 038A																
; CURRENT FILING DATE: 2001-07-09																
; NUMBER OF SEQ ID NOS: 61																
; SOFTWARE: FastSeq for Windows Version 4.0																
; SEQ ID NO 60																
; LENGTH: 373																
; TYPE: PRT																
; ORGANISM: Mouse																
US-09-823-038A-60																
Query Match																
Best Local Similarity 90.9%; Score 1560; DB 4; Length 373;																
Matches 296; Conservative 9; Mismatches 15; Indels 4; Gaps 1																
QY	1	MTPSP	LLLLLP	LLLGAF	PPAAAR	GP	PKMAD	KV	PPROVARLGR	TVRLQCPVEGDP	PPL 60					
DB	1	MTRSP	ALLL---	LLLGAL	PSAEAR	GP	PPRMAD	KV	PPROVARLGR	TVRLQCPVEGDP	PPL 56					
QY	61	TMWTKDGR	TIHSGW	SFRVLP	QGLKVK	QVER	DAGVYV	CKATNG	FGLSVNTLV	VLDI 120						
DB	57	TMWTKDGR	TIHSGW	SFRVLP	QGLKVE	AEADAG	VYVCKATNG	FGLSVNTL	IIMDI 116							
QY	121	SPGKES	IGPDSS	SGQED	PPASQ	QWARP	PTQPS	KMR	RVIA	RPVGS	SVRLKCVASG	HPRP 180				
DB	117	SPGKES	IPGCGS	SGQED	PPASQ	QWARP	PTQPS	KMR	RVIA	RPVGS	SVRLKCVASG	HPRP 176				
QY	181	DITW	KDQAL	TRPEA	APR	KKKWT	SLKN	LR	PEDSG	KYTC	RVSNR	GAINATYK	VDVIQ 240			
DB	177	DITW	KDQAL	TRPEA	APR	KKKWT	SLKN	LR	PEDSG	KYTC	RVSNR	GAINATYK	VDVIQ 236			
QY	241	RTRSK	PEVLG	THPV	NTTV	DFG	GTTS	FOCK	VRSD	VK	PVIQ	WLK	RYGAEGR	HNSTID	VG 300	
DB	237	RTRSK	PEVLG	THPV	NTTV	DFG	GTTS	FOCK	VRSD	VK	PVIQ	WLK	RYGAEGR	HNSTID	VG 296	
QY	301	QKPV	VLPTG	DVWS	R	PDGS	Y	L	N	K	P	L				324

Db 297 QKFVVLPTGDWWSRPDGSYLNKLL 320

RESULT 2

US-09-383-586-31

; Sequence 31, Application US/09383586

; Patent No. 6242419

; GENERAL INFORMATION:

; APPLICANT: Strachan, Lorna

; APPLICANT: Sleeman, Matthew

; APPLICANT: Abernethy, Nevin

; APPLICANT: Onrust, Rene

; APPLICANT: Kumble, Anand

; APPLICANT: Murison, Greg

; TITLE OF INVENTION: Compounds isolated from stromal cells

; FILE REFERENCE: 11000.1037c1

; CURRENT APPLICATION NUMBER: US/09/383,586

; CURRENT FILING DATE: 1999-08-26

; NUMBER OF SEQ ID NOS: 38

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 31

; LENGTH: 529

; TYPE: PRT

; ORGANISM: Mouse

US-09-383-586-31

Query Match 90.9%; Score 1560; DB 3; Length 529;

Best Local Similarity 91.4%; Pred. No. 1.4e-134;

Matches 296; Conservative 9; Mismatches 15; Indels 4; Gaps 1;

QY 1 MTPSPLLLLLPPLLGAFPPAAARGPCKMADKVVPRQVRLGRTVRLQCPVEGDPPL 60

Db 1 MTRSPALLL---LLLGALPSAEARGPPrMADKVVPRQVRLGRTVRLQCPVEGDPPL 56

QY 61 TMWTKDRTIHSGWSRFRVLPQGLKVKOVEREDAGVYVCKATNGFGLSVNYTLVLDI 120

Db 57 TMWTKDRTIHSGWSRFRVLPQGLKVKVEADAGVYVCKATNGFGLSVNYTLIMDDI 116

QY 121 SPGKESLGPDDSSGGQEDPASQOWARPRFTQPSKRRRVIAIPVGSSVRLKCVASGHRP 180

Db 117 SPGKESPGSGSSGGQEDPASQOWARPRFTQPSKRRRVIAIPVGSSVRLKCVASGHRP 176

QY 181 DITWMKDDQALTRPEAAEPRKKWTLSLKNLRPEDSGKYTCRVSNRAGAINATYKVDVIQ 240

Db 177 DIMMMKDDQTLTHLEASEHRKKWTLSLKNLRPEDSGKYTCRVSNKAGAINATYKVDVIQ 236

QY 241 RTRSKPVLGTGHPVNTVDFGTTSFQCKVRSVDKVPVIQWLKREVEGAEGRHNSTIDVG 300

Db 237 RTRSKPVLGTGHPVNTVDFGTTSFQCKVRSVDKVPVIQWLKREVEGSEGRHNSTIDVG 296

QY 301 QKFVVLPTGDWWSRPDGSYLNKPL 324

Db 297 QKFVVLPTGDWWSRPDGSYLNKLL 320

RESULT 3

US-09-823-038A-31

; Sequence 31, Application US/09823038A

; Patent No. 6797271

; GENERAL INFORMATION:

; APPLICANT: Strachan, Lorna

; APPLICANT: Sleeman, Matthew

; APPLICANT: Abernethy, Nevin

; APPLICANT: Onrust, Rene

; APPLICANT: Kumble, Anand

; APPLICANT: Murison, Greg

; TITLE OF INVENTION: Compositions Isolated From Stromal Cells

; FILE REFERENCE: 11000.1037c3

; CURRENT APPLICATION NUMBER: US/09/823,038A

; CURRENT FILING DATE: 2001-07-09

; NUMBER OF SEQ ID NOS: 61

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 31

; LENGTH: 529

; TYPE: PRT

; ORGANISM: Mouse

US-09-823-038A-31

Query Match 90.9%; Score 1560; DB 4; Length 529;

Best Local Similarity 91.4%; Pred. No. 1.4e-134;

Matches 296; Conservative 9; Mismatches 15; Indels 4; Gaps 1;

QY 1 MTPSPLLLLLPPLLGAFPPAAARGPCKMADKVVPRQVRLGRTVRLQCPVEGDPPL 60

Db 1 MTRSPALLL---LLLGALPSAEARGPPrMADKVVPRQVRLGRTVRLQCPVEGDPPL 56

QY 61 TMWTKDRTIHSGWSRFRVLPQGLKVKOVEREDAGVYVCKATNGFGLSVNYTLVLDI 120

Db 57 TMWTKDRTIHSGWSRFRVLPQGLKVKVEADAGVYVCKATNGFGLSVNYTLIMDDI 116

QY 121 SPGKESLGPDDSSGGQEDPASQOWARPRFTQPSKRRRVIAIPVGSSVRLKCVASGHRP 180

Db 117 SPGKESPGSGSSGGQEDPASQOWARPRFTQPSKRRRVIAIPVGSSVRLKCVASGHRP 176

QY 181 DITWMKDDQALTRPEAAEPRKKWTLSLKNLRPEDSGKYTCRVSNRAGAINATYKVDVIQ 240

Db 177 DIMMMKDDQTLTHLEASEHRKKWTLSLKNLRPEDSGKYTCRVSNKAGAINATYKVDVIQ 236

QY 241 RTRSKPVLGTGHPVNTVDFGTTSFQCKVRSVDKVPVIQWLKREVEGAEGRHNSTIDVG 300

Db 237 RTRSKPVLGTGHPVNTVDFGTTSFQCKVRSVDKVPVIQWLKREVEGSEGRHNSTIDVG 296

QY 301 QKFVVLPTGDWWSRPDGSYLNKPL 324

Db 297 QKFVVLPTGDWWSRPDGSYLNKLL 320

RESULT 4

US-09-383-586-33

; Sequence 33, Application US/09383586

; Patent No. 6242419

; GENERAL INFORMATION:

; APPLICANT: Strachan, Lorna

; APPLICANT: Sleeman, Matthew

; APPLICANT: Abernethy, Nevin

; APPLICANT: Onrust, Rene

; APPLICANT: Kumble, Anand

; APPLICANT: Murison, Greg

; TITLE OF INVENTION: Compounds isolated from stromal cells

; FILE REFERENCE: 11000.1037c1

; CURRENT APPLICATION NUMBER: US/09/383,586

; CURRENT FILING DATE: 1999-08-26

; NUMBER OF SEQ ID NOS: 38

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 33

; LENGTH: 322

; TYPE: PRT

; ORGANISM: Human

US-09-383-586-33

Query Match 84.9%; Score 1458; DB 3; Length 322;

Best Local Similarity 100.0%; Pred. No. 1.5e-125;

Matches 273; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 52 PVEGDPPLTMTWKDRTIHSGWSRFRVLPQGLKVKOVEREDAGVYVCKATNGFGLSVN 111

Db 50 PVEGDPPLTMTWKDRTIHSGWSRFRVLPQGLKVKOVEREDAGVYVCKATNGFGLSVN 109

QY 112 YTLVVLDDISPGKESLGPDDSSGGQEDPASQOWARPRFTQPSKRRRVIAIPVGSSVRLK 171

Db 110 YTLVVLDDISPGKESLGPDDSSGGQEDPASQOWARPRFTQPSKRRRVIAIPVGSSVRLK 169

QY 172 CVASGHRPRDITWMKDDQALTRPEAAEPRKKWTLSLKNLRPEDSGKYTCRVSNRAGAIN 231

```
Db 170 CVASGHPRPDITWTKDDQALTRPEAAEPRKKWTLSLKNLRPEDSGKTCRVSNRAGAIN 229
QY 232 ATYKVDVIQRTSRKPVLTGTHPVNTTVDGFGTTSFQCKVRSVDKPVIOWLKREVEYGAEGR 291
Db 230 ATYKVDVIQRTSRKPVLTGTHPVNTTVDGFGTTSFQCKVRSVDKPVIOWLKREVEYGAEGR 289
QY 292 HNSTIDVGQKFVVLPTGDVWSRPDGSYLNKPL 324
Db 290 HNSTIDVGQKFVVLPTGDVWSRPDGSYLNKPL 322
```

```
RESULT 5
US-09-823-038A-33
; Sequence 33, Application US/09823038A
; GENERAL INFORMATION:
; APPLICANT: Strachan, Lorna
; APPLICANT: Sleeman, Matthew
; APPLICANT: Abernethy, Nevin
; APPLICANT: Onrust, Rene
; APPLICANT: Kumble, Anand
; APPLICANT: Muriison, Greg
; TITLE OF INVENTION: Compositions Isolated From Stromal Cells
; FILE REFERENCE: 11000.1037c3
; CURRENT APPLICATION NUMBER: US/09/823,038A
; CURRENT FILING DATE: 2001-07-09
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 33
; LENGTH: 322
; TYPE: PRT
; ORGANISM: Human
US-09-823-038A-33
```

```
Query Match 84.9%; Score 1458; DB 4; Length 322;
Best Local Similarity 100.0%; Pred. No. 1.5e-125;
Matches 273; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 52 PVEGDPPLTMTWKDGRTHSGWSRFRVLPQGLKVKQVEREDAGVYVCKATNGFGLSVN 111
Db 50 PVEGDPPLTMTWKDGRTHSGWSRFRVLPQGLKVKQVEREDAGVYVCKATNGFGLSVN 109
QY 112 YTLVVLDDISPGKESLGPDDSSSGQEDPASQOWARPRFTQPSKMRRIARPVGSSVRLK 171
Db 110 YTLVVLDDISPGKESLGPDDSSSGQEDPASQOWARPRFTQPSKMRRIARPVGSSVRLK 169
QY 172 CVASGHPRPDITWTKDDQALTRPEAAEPRKKWTLSLKNLRPEDSGKTCRVSNRAGAIN 231
Db 170 CVASGHPRPDITWTKDDQALTRPEAAEPRKKWTLSLKNLRPEDSGKTCRVSNRAGAIN 229
QY 232 ATYKVDVIQRTSRKPVLTGTHPVNTTVDGFGTTSFQCKVRSVDKPVIOWLKREVEYGAEGR 291
Db 230 ATYKVDVIQRTSRKPVLTGTHPVNTTVDGFGTTSFQCKVRSVDKPVIOWLKREVEYGAEGR 289
QY 292 HNSTIDVGQKFVVLPTGDVWSRPDGSYLNKPL 324
Db 290 HNSTIDVGQKFVVLPTGDVWSRPDGSYLNKPL 322
```

```
RESULT 6
US-09-383-586-32
; Sequence 32, Application US/09383586
; GENERAL INFORMATION:
; APPLICANT: Strachan, Lorna
; APPLICANT: Sleeman, Matthew
; APPLICANT: Abernethy, Nevin
; APPLICANT: Onrust, Rene
; APPLICANT: Kumble, Anand
; APPLICANT: Muriison, Greg
; TITLE OF INVENTION: Compounds isolated from stromal cells
```

```
; TITLE OF INVENTION: and methods for their use
; FILE REFERENCE: 11000.1037c1
; CURRENT APPLICATION NUMBER: US/09/383,586
; CURRENT FILING DATE: 1999-08-26
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 32
; LENGTH: 439
; TYPE: PRT
; ORGANISM: Mouse
US-09-383-586-32
```

```
Query Match 60.3%; Score 1035.5; DB 3; Length 439;
Best Local Similarity 65.1%; Pred. No. 1.3e-86;
Matches 211; Conservative 4; Mismatches 14; Indels 95; Gaps 2;

QY 1 MTPSPLLLLPPLLGAFPDPAARGPPIKMDKVVPRQVARLGRVRLQCPVEGDPPL 60
Db 1 MTRSPALL-----LILGALPSAEAR----- 22
QY 61 TMTWKDGRTHSGWSRFRVLPQGLKVKQVEREDAGVYVCKATNGFGLSVNTLVLDI 120
Db 23 -----DDI 25
QY 121 SPGKESLGPDDSSSGQEDPASQOWARPRFTQPSKMRRIARPVGSSVRLKCVASGHPRP 180
Db 26 SPGKESPGGSSSGQEDPASQOWARPRFTQPSKMRRIARPVGSSVRLKCVASGHPRP 85
QY 181 DITWTKDDQALTRPEAAEPRKKWTLSLKNLRPEDSGKTCRVSNRAGAINATYKVDVIQ 240
Db 86 DIMMKDDQTLTHLEASEHRKKWTLSLKNLRPEDSGKTCRVSNKAGAINATYKVDVIQ 145
QY 241 RTRSKPVLTGTHPVNTTVDGFGTTSFQCKVRSVDKPVIOWLKREVEYGAEGRHNSTIDVG 300
Db 146 RTRSKPVLTGTHPVNTTVDGFGTTSFQCKVRSVDKPVIOWLKREVEYGEGRHNSTIDVG 205
QY 301 QKFVVLPTGDVWSRPDGSYLNKPL 324
Db 206 QKFVVLPTGDVWSRPDGSYLNKPL 229
```

```
RESULT 7
US-09-823-038A-32
; Sequence 32, Application US/09823038A
; GENERAL INFORMATION:
; APPLICANT: Strachan, Lorna
; APPLICANT: Sleeman, Matthew
; APPLICANT: Abernethy, Nevin
; APPLICANT: Onrust, Rene
; APPLICANT: Kumble, Anand
; APPLICANT: Muriison, Greg
; TITLE OF INVENTION: Compositions Isolated From Stromal Cells
; FILE REFERENCE: 11000.1037c3
; CURRENT APPLICATION NUMBER: US/09/823,038A
; CURRENT FILING DATE: 2001-07-09
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 32
; LENGTH: 439
; TYPE: PRT
; ORGANISM: Mouse
US-09-823-038A-32
```

```
Query Match 60.3%; Score 1035.5; DB 4; Length 439;
Best Local Similarity 65.1%; Pred. No. 1.3e-86;
Matches 211; Conservative 4; Mismatches 14; Indels 95; Gaps 2;

QY 1 MTPSPLLLLPPLLGAFPDPAARGPPIKMDKVVPRQVARLGRVRLQCPVEGDPPL 60
Db 1 MTRSPALL-----LILGALPSAEAR----- 22
```

```

QY      61  TMTWKDRTIHSGWSRFRVLPQGLKVKQVEREDAGVYVCKATNGFGLSVNVTLLVLDI 120
Db      23  -----DDI 25
QY      121 SPGESLGPDDSSGGQEDPASQOWARPRFTQPSKMRRIARPVGSSVRLKCVASGHPRP 180
Db      26  SPGESLGPDDSSGGQEDPASQOWARPRFTQPSKMRRIARPVGSSVRLKCVASGHPRP 85
QY      181 DITWMKDQALTRPEAEPRKKKWTLSLKNLRPEDSGKYTCRVSNRAGAINATYKVDVIQ 240
Db      86  DIMMKDDQTLTHLEASERKKKWTLSLKNLRPEDSGKYTCRVSNRAGAINATYKVDVIQ 145
QY      241 RTRSKPVLGTHTPVNTTVDGTTSPQCKVRSVDKPVIOWLKRVYEGAEGRHNSTIDVG 300
Db      146 RTRSKPVLGTHTPVNTTVDGTTSPQCKVRSVDKPVIOWLKRVYEGAEGRHNSTIDVG 205
QY      301 QKFVVLPTGDVWSRPDGSYLKPL 324
Db      206 QKFVVLPTGDVWSRPDGSYLKPL 229

```

```

RESULT 8
US-09-383-630-6
; Sequence 6, Application US/09383630A
; Patent No. 6265632
; GENERAL INFORMATION:
; APPLICANT: Avner Yayon et al.
; TITLE OF INVENTION: ANIMAL MODEL FOR FIBROBLAST GROWTH
; FACTOR RECEPTOR ASSOCIATED
; CHONDRODYSPLASIA
;
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Mark M. Friedman c/o Anthony Castorina
; STREET: 2001 Jefferson Davis Highway, Suite 207
; CITY: Arlington
; STATE: Virginia
; COUNTRY: United States of America
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 1.44 megabyte, 3.5" microdisk
; COMPUTER: Twinhead* Slimote-890TX
; OPERATING SYSTEM: MS DOS version 6.2,
; Windows version 3.11
; SOFTWARE: Word for Windows version 2.0 converted
; to an ASCII file
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/383,630A
; FILING DATE: 26-Aug-1999
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: <Unknown>
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Friedman, Mark M.
; REGISTRATION NUMBER: 33,883
; REFERENCE/DOCKET NUMBER: 1402/2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 972-3-5625553
; TELEFAX: 972-3-5625554
; TELEX: <Unknown>
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 801
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 6:
US-09-383-630-6

```

```

Query Match      23.8%; Score 408.5; DB 3; Length 801;
Best Local Similarity 34.4%; Pred. No. 9.2e-29;
Matches 106; Conservative 49; Mismatches 114; Indels 39; Gaps 11;

```

```

QY      22  AAAARGPPKMAKVVPR-----QVA-RLGRTVRLQC-PVEGDPPLTMTKXD 66
Db      16  AGATSEPPPEQRRVRRRAAEVPGPEPSQGEQVAFSGDITVELSCHPPGAPFTPTWAKD 75
QY      67  GRTIHSGWSRFRVLPQGLKVKQVEREDAGVYC--KATNGFGLSVNVTLLVLDISP GK 124
Db      76  GTGLVAS-HRILVGFQRLQVLNASHEDAGVYSCQHLRTR--RYLCHPSVRTDAPSSGD 131
QY      125 ESLGPDSSGGQEDPASQOWARPRFTQPSKMRRIARPVGSSVRLKCVASGHPRPDITW 184
Db      132 DEDGEDVA---EDTGAPYW-----TRPERMDKLLAVPAANTVRFRCPAAGNPTPSISW 182
QY      185 MKDDQALT--RPEAEPRKKKWTLSLKNLRPEDSGKYTCRVSNRAGAINATYKVDVIQ 241
Db      183 LKNGKEFRGEHRIIGIKLRHQQWSLVMSVPSDRGNVTCVVENKFGSIRQTYTLVDLER 242
QY      242 TRSKPVLGTHTPVNTTVDGTTSPQCKVRSVDKPVIOWLKRVYEGAEGRHNSTIDVGQ 301
Db      243 SPHRPILQAGLPANQTAILGSDVEFHCKVYSDAQPHIOWLKHVEV-----NGSKVGPDDGT 297
QY      302 KFY-VLPT 308
Db      298 PYVTVLKT 305

```

```

RESULT 9
US-09-383-630-3
; Sequence 3, Application US/09383630A
; Patent No. 6265632
; GENERAL INFORMATION:
; APPLICANT: Avner Yayon et al.
; TITLE OF INVENTION: ANIMAL MODEL FOR FIBROBLAST GROWTH
; FACTOR RECEPTOR ASSOCIATED
; CHONDRODYSPLASIA
;
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Mark M. Friedman c/o Anthony Castorina
; STREET: 2001 Jefferson Davis Highway, Suite 207
; CITY: Arlington
; STATE: Virginia
; COUNTRY: United States of America
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 1.44 megabyte, 3.5" microdisk
; COMPUTER: Twinhead* Slimote-890TX
; OPERATING SYSTEM: MS DOS version 6.2,
; Windows version 3.11
; SOFTWARE: Word for Windows version 2.0 converted
; to an ASCII file
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/383,630A
; FILING DATE: 26-Aug-1999
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: <Unknown>
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Friedman, Mark M.
; REGISTRATION NUMBER: 33,883
; REFERENCE/DOCKET NUMBER: 1402/2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 972-3-5625553
; TELEFAX: 972-3-5625554
; TELEX: <Unknown>
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 806
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-383-630-3

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Query Match	22.9%	Score 393;	DB 3;	Length 806;
Best Local Similarity	33.4%	Pred. No. 2.5e-27;		
Matches 100; Conservative	49;	Mismatches 116;	Indels 34;	Gaps 11;

[illegible]

RESULT 10

US-09-173-151A-33
; Sequence 33, Application US/09173151A
; Patent No. 6326472
; GENERAL INFORMATION:
; APPLICANT: Timans, Jacqueline C.
; APPLICANT: Debets, Johannes Eduard Maria
; APPLICANT: Antonius
; APPLICANT: Sana, Theodore R.
; APPLICANT: Bazan, J. Fernando
; APPLICANT: Kastelein, Robert A.
; TITLE OF INVENTION: Human Receptor Proteins; Related Reagents and Methods
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: DNAX Research Institute
; STREET: 901 California Avenue
; CITY: Palo Alto
; STATE: California
; COUNTRY: USA
; ZIP: 94304-1104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/173,151A
; FILING DATE: 14-OCT-1998
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/065,776
; FILING DATE: 17-NOV-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/078,008
; FILING DATE: 12-MAR-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/081,883
; FILING DATE: 15-APR-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/095,987
; FILING DATE: 10-AUG-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/078,416
; FILING DATE: 18-MAR-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/062,066
; FILING DATE: 15-OCT-1997
; ATTORNEY/AGENT INFORMATION:
;

```

; NAME: Ching, Edwin P.
; REGISTRATION NUMBER: 34,090
; REFERENCE/DOCKET NUMBER: DX0767X
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650)852-9196
; TELEFAX: (650)496-1200
; INFORMATION FOR SEQ ID NO: 33:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 802 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
;
US-09-173-151A-33

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Query Match	22.3%;	Score 382.5;	DB 3;	Length 802;
Best Local Similarity	31.3%;	Pred. No. 2.2e-26;		
Matches 109;	Conservative 50;	Mismatches 136;	Indels 53;	Gaps 12;

QY		6	L L L L L P R L L G A F P P A A A A R G - - - - -	P R K M A D K V N P R Q - - -	V A R I G R T V R L Q C P V E G D	56
D b		3	L L L A L G V L L S V P G P P V L S E A S E E V E L E P C L A P S L E Q Q E O E L T V A L G O P V R L C C - - -	G R	59	
QY		57	P P L T M W T K D G R T I H S G W S R P R V L P Q G - - - - -	L K V K O V E R E D A G Y V V C K A T N G F G S L	108	
D b		60	A E R G G H W M Y K E G S - - - - -	R L A P A G R V R G W R G R L E I A S F L P E D A G R Y L C L A R - - -	G S M 107	
QY		109	S V - - N Y T L V L V L D I S P K E S I G P D S S G G Q E D P A - - -	S Q W A R P R F T O P S K M R R R V I A R P	163	
D b		108	I V L Q N L T L I T G D S L T S S N D E D E D K S - - -	H R D P S N R H S Y P Q O A P Y W T H Q R M E K L H A V P	163	
QY		164	V G S S V R L K C V A S G H R P R D I T W M K D O A L - - -	T R P E A E P R K K K W T L S L K N L R P E D S G K Y T	220	
D b		164	A G N T V K E R C P A A G N P T P T I R M L K D Q A F H G E N R I G I R L R H Q H W S L V M E S V P S D R G T Y T		223	
QY		221	C R V S N R A G A I N A T Y K V D V I O R T R S K P V L T G T H P V N T T V D F G T T S F Q C K V R S D V K E V I Q W		280	
D b		224	C L V E N A V G S I R Y N Y L L D V L E R S P H R P I L Q A G L P A N T T A V V G S D V E L L C K Y S D A Q P H I Q W		283	
QY		281	L K R V - - - - - E Y G A E G - - - - -	R H N S T I D V G G Q K F V V L P T G D V W S R P D G S Y	319	
D b		284	L K H I V I N G S S F G A V G F P Y V Q V L K T A D I N S S E V E V L Y L R N V S A E D A G E Y	331		

RESULT 11

US-07-640-029-1
; Sequence 1, Application US/07640029
; Patent No. 5229501
; GENERAL INFORMATION:
; APPLICANT: Kiefer, Michael C.
; APPLICANT: Valenzuela, Pablo D.T.
; APPLICANT: Barr, Philip J.
; TITLE OF INVENTION: Expression and Use of Human Fibroblast
; TITLE OF INVENTION: Growth Factor Receptor
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: USA
; ZIP: 94608
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/640,029
; FILING DATE: 19910111
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: McClung, Barbara G.

REGISTRATION NUMBER: 33,113
REFERENCE/DOCKET NUMBER: CH-165
TELECOMMUNICATION INFORMATION:
TELEPHONE: 510-601-2708
TELEFAX: 510-655-3542
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 816 amino acids
TYPE: AMINO ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-07-640-029-1

Query Match 22.1%; Score 380; DB 1; Length 816;
Best Local Similarity 30.0%; Pred. No. 3.9e-26;
Matches 89; Conservative 53; Mismatches 125; Indels 30; Gaps 8;

QY 3 PSQLLLLPPLLGAFPPAAARCPPKMDKVVRQVRLGRTVRLQCPVEGDPPLTM 62
DB 23 PSPTL-----PEQAQFWGAPVEVESF---LVHPGDLQLRCRLRDDVQSIN- 65
QY 63 WTKDGRTHSGWSRFRVLPQGLKVQVERDAGVYVCKATNGFGLSVNYTLVLDISP 122
DB 66 WLRDGVOLAES-NRTRITGEVEVEVDSPADSGLYACVTSSPSGS-DTTYFSVNVSDALP 123
QY 123 GKESLGPDSSSGGQ-----DPASQOWARPRFTQSKMRRRVIARPVGSSVRLKCVASG 176
DB 124 SSEDDDDDSSSEKKEKETDNTKPNPVAAPYWTSPKMEKTLHAVPAKATVKFCPPSSG 183
QY 177 HPRPDITWMDQALTRPE---AAEPKKKWTLSLKNLRPDSGKYTCRVSNRAGAINA 232
DB 184 TPNPTLRWLKNGKEF-KPDHRIGYKVRVATWSIIMDSVVPDCKGNYTCIVENEYGSINH 242
QY 233 TYKVDVIQTRSKPVLTGTHPVNTTVDFGCTTSFOCKVRSDVKPVIQWLKRVYGA 289
DB 243 TYQLDVERSPHRPILQAGLPANKTVALGSNVEFMCKVYSDPQPHIQWLKHIEWGSK 299

RESULT 12

US-08-471-570-14
Sequence 14, Application US/08471570
Patent No. 5750371

GENERAL INFORMATION:
APPLICANT: IGARASHI, Koichi
APPLICANT: SENOO, Masaharu
APPLICANT: WATANABE, Tatsuya
TITLE OF INVENTION: PROTEIN, DNA AND USE THEREOF
NUMBER OF SEQUENCES: 18
CORRESPONDENCE ADDRESS:
ADDRESSEE: DAVID G. CONLIN, DIKE, BRONSTEIN, ROBERTS &
ADDRESS: CUSHMAN
STREET: 130 Water Street
CITY: Boston
STATE: Massachusetts
COUNTRY: US
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/471,570
FILING DATE: 06-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/149,664
FILING DATE:
APPLICATION NUMBER: US 07/743369
FILING DATE: 16-AUG-1991
ATTORNEY/AGENT INFORMATION:
NAME: LINEK, Ernest V

REGISTRATION NUMBER: 29822
REFERENCE/DOCKET NUMBER: 40897
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)523-3400
TELEFAX: (617)523-6440
TELEX: 200291 STRE UR
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 355 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-471-570-14

Query Match 22.1%; Score 379.5; DB 1; Length 355;
Best Local Similarity 30.1%; Pred. No. 1.3e-26;
Matches 97; Conservative 59; Mismatches 129; Indels 37; Gaps 10;

QY 20 PPAARCPPKMDKVVRQVRLGRTVRLQCPVEGDPPLTMWTKDGRTHSGWSRFRV 79
DB 18 PPTKYQISQPEV-----YVAAPGESLEVRCLLK--DAAVISWTDG--VHLGPNMRTV 66
QY 80 L-PQGLKVQVERDAGVYVCKATNGFGLSVNYTLVLDISPKEGSLGPDSSSGGQED 138
DB 67 LIGEXLQIKGATPRDSGLYACTASRTVDSFTWYFMVNTDAISSGD---EDDTGAED 122
QY 139 PASQ---QWARPRTQPSKMRRRVIARPVGSSVRLKCVASGHPRPDIWTKDQALT--- 192
DB 123 FVSENSNNKRAPYWTNTEKMEKRLHAVPAANTVKFRCPAGGNPMPTWMLKNGKEFKQEH 182
QY 193 RPEAEPKKKWTLSLKNLRPDSGKYTCRVSNRAGAINATYKVDVIQTRSKPVLTGTH 252
DB 183 RIGGYKVRNQHMNSLIMESVVPDCKGNYTCVENEYGSINHTYHLDVERSHPRPILQAGL 242
QY 253 PVNTTVDFGCTTSFOCKVRSDVKPVIQWLKRV-----YGAEG-----RHNSTIDVCG 300
DB 243 PANASTVVGDEYFVCKVYSDAQPHIQWLKHVEKNGSKYGPDLPLYLKVLRKHSG---INS 299
QY 301 QKFVLPFGDVWSRPDGSYLNK 322
DB 300 SNAEVLALFNVTADAGEYICK 321

RESULT 13

US-08-471-570-6
Sequence 6, Application US/08471570
Patent No. 5750371

GENERAL INFORMATION:
APPLICANT: IGARASHI, Koichi
APPLICANT: SENOO, Masaharu
APPLICANT: WATANABE, Tatsuya
TITLE OF INVENTION: PROTEIN, DNA AND USE THEREOF
NUMBER OF SEQUENCES: 18
CORRESPONDENCE ADDRESS:
ADDRESSEE: DAVID G. CONLIN, DIKE, BRONSTEIN, ROBERTS &
ADDRESS: CUSHMAN
STREET: 130 Water Street
CITY: Boston
STATE: Massachusetts
COUNTRY: US
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/471,570
FILING DATE: 06-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/149,664
FILING DATE:

```

; APPLICATION NUMBER:  US 07/743369
; FILING DATE:  16-AUG-1991
; ATTORNEY/AGENT INFORMATION:
; NAME:  LINEK, Ernest V
; REGISTRATION NUMBER:  29822
; REFERENCE/DOCKET NUMBER:  40897
; TELECOMMUNICATION INFORMATION:
; TELEPHONE:  (617)523-3400
; TELEFAX:  (617)523-6440
; TELEX:  200291 STRE UR
; INFORMATION FOR SEQ ID NO:  6:
; SEQUENCE CHARACTERISTICS:
;     LENGTH:  643 amino acids
;     TYPE:  amino acid
;     TOPOLOGY:  linear
;     MOLECULE TYPE:  protein
;
US-08-471-570-6

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Query Match	22.1%;	Score 379.5;	DB 1;	Length 643;
Best Local Similarity	30.1%;	Pred. No. 3.1e-26;		
Matches 97; Conservative	59;	Mismatches 129;	Indels 37;	Gaps 10;

QY		20	P P A A A A R G P P K M A D K V N P R O V A R L G R T V R L Q C P V E G D P P P L T M W T K D G R T I H S G W S R F R Y	79
D b		38	P P T K Y Q I S O P E V - - - - - Y V A A P G E S L E V R C L I K - - D A A V I S W T K D G - - V H L G B N N R T V	86
QY		80	L- P O G L K V K O V E R E D A G V Y V C K A T N G F G S L S V N Y T L V L D D I S P K E S L G P D S S G G Q E D	138
D b		87	L I G E Y L Q I K G A T P R D S G L Y A C T A S R T V D S E T W Y F M W N V T D A I S S G D D - - E D D T D G A E D	142
QY		139	P A S Q - - - Q W A R P R F T Q P S K M R R R V I A R P V G S S V R L K C V A S G H P R P D I T W M K D D A L T - - -	192
D b		143	F V S E N S N N K R A P Y M T N T E K M E K R L H A V P A A N T V K F R C P A G N P M P T M R W L K N G K E F Q E H	202
QY		193	R P E A A E P R K K K W T L S L K N L R P E D S G K Y T C R V S N R A G A I N A T Y K V D V I O R T R S K P V L T G T H	252
D b		203	R I G G Y K V R N Q H M S L I M E S V P S D K G N Y T C V A E N E Y G S I N H T Y H L D V E R S P H R P I L Q A G L	262
QY		253	P V N T V D F G G T T S F O C K V R S D V K P V I O W L K R V E - - - - - Y G A E G - - - - - R H N S T I D V G G	300
D b		263	P A N A S T V V G G D V E F V C K V S D A Q P H I Q M I K H V E K N G S K Y G P D G L P Y L K V L K H S G - - - I N S	319
QY		301	Q K F V L P T G D V W S R P D G S Y L N K	322
D b		320	S N A E V L A L F N V T E A D A G E Y I C K	341

RESULT 14
US-08-471-570-8
Sequence 8, Application US/08471570
Patent No. 5750371
GENERAL INFORMATION:
APPLICANT: IGARASHI, Koichi
APPLICANT: SENOO, Masaharu
APPLICANT: WATANABE, Tatsuya
TITLE OF INVENTION: PROTEIN, DNA AND USE THEREOF
NUMBER OF SEQUENCES: 18
CORRESPONDENCE ADDRESS:
ADDRESSEE: DAVID G. CONLIN; DIKE, BRONSTEIN, ROBERTS &
ADDRESSEE: CUSHMAN
STREET: 130 Water Street
CITY: Boston
STATE: Massachusetts
COUNTRY: US
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/471,570
FILING DATE: 06-JUN-1995

```

; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/149,664
; FILING DATE:
; APPLICATION NUMBER: US 07/743369
; FILING DATE: 16-AUG-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: LINK, Ernest V
; REGISTRATION NUMBER: 29822
; REFERENCE/DOCKET NUMBER: 40897
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)523-3400
; TELEFAX: (617)523-6440
; TELEX: 200291 STRE UR
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 769 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
;
US-08-471-570-8

```

Query Match	22.1%;	Score 379.5;	DB 1;	Length 769;
Best Local Similarity	30.1%;	Pred. No. 4e-26;		
Matches	97;	Conservative	59;	Mismatches 129;
			Indels	37;
			Gaps	10;

QY		20	P P A A A A R G P P K M A D K V V E R Q V A R L G R T V R L O C P V E G D B P P L T M W T K D G R T I H S G W S R F R V	79
D b		38	P P T K Y I S O P E V - - - - - Y V A A P G E S L E V R C L L K - - D A V I S W T X D G - - V H L G P N N R T V	86
QY		80	L- P Q G L K V K Q V E R E D A G V V C A K T N G F G S L S V N Y T L V L D D I S P K E S L G P D S S G G Q E D	138
D b		87	L I G E Y L Q I K A T P R D S G J Y A C T A S R T V D S E T W Y F M V N T D A I S S G D D - - - E D T D G A E D	142
QY		139	P A S Q - - - Q W A R P R F T O S K M R R R V I A R P V G S S V R L K C V A S G H P R P D I T M K D Q A L T - - -	192
D b		143	F V S E N S N N K R A P Y W T N T E K M E K R L H A V P A A N T V K F R C P A G N P M P T M R W L K N G K E F K Q E H	202
QY		193	R P E A E P R K K K W T L S L K N L R P E D S G Y T C R V S N R A G A I N A T Y K V D V I O R T R S K P V L T G T H	252
D b		203	R I G G Y K V R N Q H M S L I M E S V P S D K G N Y T C V E N E Y G S I N H T Y H L D V E R S P H R P I L Q A G L	262
QY		253	P V N T T V D F G G T T S F O C K Y V R S D V K P V I O M L K R V E - - - - - Y G A E G - - - - - R H N S T I D V G G	300
D b		263	P A N A S T V V G G D V E F V C K Y S D A Q P H I Q I W I K H V E K N G S K Y G P D G L P Y L K V L K H S G - - - I N S	319
QY		301	Q K F V V L P T G D V W S R P D G S Y L N K	322
D b		320	S N A E V L A L F N V T E A D A G E Y I C K	341

```

RESULT 15
US-08-451-822A-13
; Sequence 13, Application US/08451822A
; Patent No. 5863888
; GENERAL INFORMATION:
; APPLICANT: Dionne, Craig A
; APPLICANT: Crumley, Greg
; APPLICANT: Jaye, Michael C
; APPLICANT: Schlessinger, Joseph
; TITLE OF INVENTION: Fibroblast Growth Factor Receptors
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Rhone-Poulenc Rorer Legal Department
; STREET: 500 Arcola Road
; CITY: Collegeville
; STATE: PA
; COUNTRY: USA
; ZIP: 19426
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
;

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QY	62	MWTKDGRTHSGWRRFRVLPOGLKVKQVEREDAGYVVCATNGFGLSVNNTL---	VULD	118
Db	65	-WVKNGVQL-SEINRTRITGEEIQISNAGPEDNGVYAC-VTNG---	PSRTYTVLCSVNV	118
QY	119	DISPGKESLGPDDSSGGQEDPASQOWA--RPRFTQPSKMRRRVIARPVGSSVRLKCVASG		176
Db	119	DALPSAEDDDEDDDNSSSEKAENSKPNRPLWSPHEKMEKTLHAVPAAKTVKRCPPANG		178
QY	177	HPRPDITWMKDQALTRPE--AAEPRKKWTLSLKNLRPEDSGKYTCRVSNRAGAINAT		233
Db	179	TPTPTLRWLKNNRAFQODQIRIGGYKVRQTWSLIMDSVVPDSKGNYTCIENKYGAINHT		238
QY	234	YKVDVIQRTRSKFPVLGTHPVNTTVDFGGTTSFOCKYRSDVKPVIQWLKREVEGAEGRHN		293
Db	239	YQLDVERSPhRPILQAGLPLANTSvtvgTTAEFSCKVYSDPQPHIQWLRHIEI----	NG	293
QY	294	STIDVGQKfV-VLPTGDV		311
Db	294	SRVASDGFPPYEILKTAGV		312

[illegible]

QY	122	PKESLGPDDSSGGQEDPASQOWA--RPRFTQPSKMRRVILARPVSSVRLKCVASGHPR	179
		: : : : : : : : : : : : : : : : : : : :	
Db	122	PSAEDDDDDDDNSSSEEKASSENSKPNRPFWSHPEKMEKCLHAVPAAKTVKRCRPA NGTPS	181
QY	180	PDITWKKDDQALTRPE-----AAEPKKKWTLSLKNLRPEDSGKYYTGRVSNRAGAINATYK	235
		: : : : : : : : : : : : : : : : : : : : : : : : :	
Db	182	PALRWLKNNGKEF-RPDQRIIGYKVRSGTWSLIMDSVVPSDKGNVTCLVENKYGTLNHTTYQ	240
QY	236	VDVIQRTRSKRPVLTGTHPVNNTVDFEGTTSFOCKVRSDVKPVIQWLKREVEYGAEGRHNS	295
		: : : : : : : : : : : : : : : : : : : : : : : : :	
Db	241	LDVERSPPHRIPLQAGLPANTSVTVGSTAEFSCKVSDPQPHIQWLRIEI-----NGSR	295
QY	296	IDVGQKQFV-VLPTGDV	311
		: : : : : : : : : :	
Db	296	VASDGFPPYEILKTAGV	312

```

RESULT 3
B49151
fibroblast growth factor receptor 4 - Iberian ribbed newt
C/Species: Pleurodeles waltlii (Iberian ribbed newt)
C/Date: 19-Dec-1993 #sequence_revision 18-Nov-1994 #text_change 09-Jul-2004
C/Accession: B49151
R/Shi, D.L.; Felge, J.J.; Riou, J.F.; Desimone, D.W.; Boucaut, J.C.
Development 116, 261-273, 1992
A/Title: Differential expression and regulation of two distinct fibroblast growth factor
A/Reference number: A49151; MUID:93130775; PMID:1483392
A/Accession: B49151
A/Status: preliminary
A/Molecule type: nucleic acid
A/Residues: 1-822 <SHI>
A/Cross-references: UNIPROT:Q91288; GB:X65059; NID:g64252; PIDN:CAA46192.1; PID:g64253
A/Experimental source: tail-bud
A/Note: sequence extracted from NCBI backbone (NCBIN:122598, NCBIPI:122599)
C/Superfamily: basic fibroblast growth factor receptor 1; immunoglobulin homology; protei
C/Keywords: ATP; growth factor receptor
F;283-354/Domain: immunoglobulin homology <IMM>
F;484-769/Domain: protein kinase homology <KIN>
F;492-500/Region: protein kinase ATP-binding motif

Query Match      24.6%; Score 422; DB 2; Length 822;
Best Local Similarity 32.0%; Pred. No. 6.8e-23;
Matches 110; Conservative 66; Mismatches 134; Indels 34; Gaps 12;

QY 2 TPSPLLLLLLPPLLGAFPRAAARGPVK-----MADKVVPQVAVRL--GRVRLQCPV 53
   | ||||| | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 15 TTRPLALLLGLL--AFSAUSCARLTPEGRKANLAELVSEEEHFLLDPGNALRLFC-- 69
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 54 EGDPEPLTMW-TKDGRTHSGWSRFRVLPQGLKVQYEREDAGVYVCKATNGFGSLVNY 112
   : : : : : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 70 DTNQTTIVNWYTESTRLQHG--RIRLTDVLEIADVIEDSGLYLC-VVPGTGILRNF 126
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 113 TLVLVDDISPG--KESTLGDSSSG--GQEDPASQOWARPRFTQPSKMRRTVIAAPVSS 167
   | : | : | : | | | | | : | : | : | : | : | : | : | : | : | : |
DB 127 TISVVDLSLASEDDDEDHGRSDSAGDMGEDPYSSTYRAPFWSQPRMDKUYAVPAGNT 186
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
QY 168 VRLKCVASGHRPDITWMDQAL--TRPEAAEPRKKKWTLSLKNLRPEDSGKYTCRVS 224
   | : | : | : | | | : | : | : | : | : | : | : | : | : | : | |
DB 187 VKFRCPESAGNPTPGIRMLKNGREFGGEHRIGGIRLRHQWSLVMSVSPDRGNYTCLVE 246
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | |
QY 225 NRAGAINATYKVDVIQRTSKPVLTGTHPVNTYVDFGTTSFQCKVRSVDKPVYIQLKRV 284
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 247 NKFGSISYSYLLDLVLEERSPHRPILQAGLPANTTAMLGSDVQFFCKVYSDAQPHIQLKHI 306
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
QY 285 E-----YGAEG----RHNGTIDVGQKFVLLPTGDVWSRPDGSY 319
   | | | | | : | : | : | : | : | : | : | : | : | : | : | : |
DB 307 EVNGSRYPDPDGPVFPVQLKTKADINSSEVEVLYLHNVSFEDAGEY 350
   | | | | | : | : | : | : | : | : | : | : | : | : | : | : |

RESULT 4
fibroblast growth factor receptor - Iberian ribbed newt

```

C:Species: Pleurodeles waltl:ii (Iberian ribbed newt)
C:Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 09-Jul-2004
C:Accession: S19947
R:SNL, D.L.; Feige, J.J.; Rlou, J.F.; Desimone, D.W.; Boucaut, J.C.
submitted to the EMBL Data Library, March 1992
A:Description: Receptores during early development of the urodele Pleurodeles waltl:ii.
A:Reference number: S19947
A:Accession: S19947
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-822 <SH1>
A:Cross-references: UNIPROT:Q91288; EMBL:X65059
C:Superfamily: basic fibroblast growth factor receptor 1; immunoglobulin homology; prote
C:Keywords: ATP; growth factor receptor
F:283-354/Domain: immunoglobulin homology <IMM>
F:484-769/Domain: protein kinase homology <KIN>
F:492-500/Region: protein kinase ATP-binding motif

Query Match	24.2%;	Score 416;	DB 2;	Length 822;
Best Local Similarity	31.7%;	Pred. No. 1.9e-22;		
Matches 109; Conservative	66;	Mismatches 135;	Indels 34;	Gaps 12;

OY		2	T P S P L L L L L . P R L L L G A F P P A A A R C B P K - - - - M A D K V P R O V A R L - - - G T V R L Q C P V	53
D b		15	T T R P L A L L L C G L L - - - A F S A L S C A R T L E B G R K A N I A E L V S E E H F L L D P G N A L R L F C - -	69
OY		54	E G D P P P L T M W - T K D G R T I H S G W S R F R V L P Q L K V K O V E R E D A G V V Y C K A T N G F G S L S V N Y	112
D b		70	D T N Q T T I V N W M Y T E S T R L Q H G G - R I R L D T V Q E I A D V T Y E D S G L Y L C - V V E G T H I L R N F	126
OY		113	T L V L L D D I S P G - - - K E S L G P D S S S G - G Q E D P A S Q Q W A R P R F T O P S K M R R V I A R P V G S S	167
D b		127	T I S V D S L A S G D D D E D H G R E D S A G D M G E D P P Y S T S Y R A P F W S Q P Q R M D K U L Y A V P A G N T	186
OY		168	V R L K V A S G H P R P D I T M W K D Q A L - - - T R P E A A E P R K K K W T L S L K N L R P E D S G K Y T C R V S	224
D b		187	V K F R C P S A G N P T P G I R M L K N G R E F G G E H R I G T R L R H Q H S L V M E S V P S D R G N Y T C L V E	246
OY		225	N R A G A I N A T Y K V D V I Q R T R S K P V L T G T H P V N T T V D F G G T S F Q C K V R S D V K P V I Q M L K R V	284
D b		247	N K F G S I S Y S L L D V L E R S P H R P I L Q A G L P A N T T A M L G S D V Q F C K V Y S D A Q P H I Q M L K H I	306
OY		285	E - - - - - Y G A E G - - - - R H N S T I D V G G Q K F V V L P T G D V W S R P D G S Y	319
D b		307	E V A N G R Y G P D G V P F V Q V L K T A D I N S S E V E V L Y L H N V S F E D A G E Y	350

RESULT 5
TVHU2F
fibroblast growth factor receptor flg-2 precursor - human
N;Contains: protein-tyrosine kinase (EC 2.7.1.112) flg-2
C;Species: Homo sapiens (man)
C;Date: 31-Dec-1993 #sequence_revision 31-Dec-1993 #text_change 16-Jun-2000
C;Accession: A60350; S21843
R;Avivl, A.; Zimmer, Y.; Yayon, A.; Yarden, Y.; Gitvol, D.
Oncogene 6, 1089-1092, 1991
A;Title: Flg-2, a new member of the family of fibroblast growth factor receptors.
A;Reference number: A60350; MUID:91296390; PMID:1648703
A;Accession: A60350
A;Molecule type: mRNA
A;Residues: 1-800 <AVI>
A;Cross-references: EMBL:X58255; NID:g31382; PIDN:CAA41209.1; PID:g31383
A;Experimental source: keratinocytes
C;Comment: This may be a receptor for keratinocyte growth factor.
C;Genetics:
A;Gene: GDB:FGFR2; JWS; CPD1; KGF; FLG2
A;Cross-references: GDB:127273; OMIM:176943
A;Map position: 10q25.3-10q26
C;Superfamily: basic fibroblast growth factor receptor 1; immunoglobulin homology; prote
C;Keywords: ATP; autophosphorylation; duplication; glycoprotein; growth factor receptor;
F;1-21/Domain: signal sequence #status predicted <Sig>
F;22-800/Product: fibroblast growth factor receptor flg-2 #status predicted <MAT>
F;22-369/Domain: extracellular #status predicted <Ext>

F,131-137/Region: acidic
F,262-335/Domain: immunoglobulin homology <IMM>
F,370-390/Domain: transmembrane #status predicted <TM>
F,391-800/Domain: intracellular #status predicted <INT>
F,464-749/Domain: protein kinase homology <KIN>
F,472-480/Region: protein kinase ATP-binding motif
F,59-107,170-222,269-333/Disulfide bonds: #status predicted
F,96,219,256,288,309,322/Binding site: carbohydrate (Asn) (covalent) #status predicted
F,502,519,611/Active site: Lys, Glu, Asp #status predicted
F,616,629/Binding site: magnesium (Asn, Asp) #status predicted
F,642/Binding site: phosphate (Tyr) (covalent) (by autophosphorylation) #status predicted

Query Match	23.8%;	Score 409;	DB 1;	Length 800;
Best Local Similarity	34.3%;	Pred. No. 5.8e-22;		
Matches 103; Conservative	48;	Mismatches 111;	Indels 38;	Gaps 10;

QY		22	AAAARGPPKMADKVPR-----QVA-RLGRVTYLQC-EVEGDPPLMTMTKD	66
Dd		16	AGATSEPPGPPEQRVVRRRAAEVGPPEPSQQEQVAFSGDTELSCHPBGCAFTGPTWAKD	75
QY		67	GRTIHSGWSRFRVLPPQGLKVQVEREDAGVVC--KATINGFGSLSVNYTLVLDDISPGK	124
Dd		76	GTGLVAS-HRILVGPFQLQVLNASHEDAGVYSCQHRLTR--RVLCFHSVRTVDAPSSGD	131
QY		125	ESLGPDISSSGQEDPASQQVARBRFTQPSKMRRRIARPVGS SVRLKCVA SGHPRPDITW	184
Dd		132	DEDEDVA----EDTGAPYW-----TRPERMDKLLAVPAANTVRFCRCPAAGNPPTSISW	182
QY		185	MKDDQALT--RPEAAEPRKKKKWTLSLKNLRPEDSGKYTCRVSNRGAINATYKVDVIQR	241
Dd		183	LKNGKEFRGGQHRIGGIKL RHQQMSLVME SVVP SDRGN YTC VVENK FGSIRQT YTL DVLER	242
QY		242	TRSKPVL TGTHPVNTTVDFEGGTTSFQCKVRSDVKPVIQWLKRVE-----YGAEGRHNSTI	296
Dd		243	SPPHPILQAGLPANOTAILGSDVEFECHKVYSDAQPHIQMLKHAVEVNGSKVGPBDGTPTYDTV	302

Db	67	GRTIHSGMSRFRVLPGGLKVKQVERNDAGVVC--KATNGFGSLSVNYTLVLLDDISPGK	124
Qy	67	GTGLIVAS-HRILVGPORLQVLNASHEDAGVYSCQHRLTR--RVLCHFSVRTDAPSSGD	131
Db	16	AGATSEPPGPEQQRVVRRAAEVPGPEPSEQOEQVAFGSGDTVELSCHPFGCAPTGPVTWAKD	75
Qy	22	AAAARGPPKMAADKVVPR-----QVA-RLGRTVRLQC-PVEGDPPEPLTMWTKD	66
Db	106	Conservative	49; Mismatches 114; Indels 39; Gaps 11;
Qy	23.8%;	Score 408.5;	DB 2; Length 800;
Qy	Best Local Similarity	34.4%;	Pred. No. 6.3e-22;
Qy	Matches	106;	Conservative 49; Mismatches 114; Indels 39; Gaps 11;

[illegible]

RESULT 7

155363
 Fibroblast growth factor receptor 3 - mouse
 C:Species: Mus musculus (house mouse)
 C:Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 09-Jul-2004
 C:Accession: I55363; B53627
 R:Ornitz, D.M.; Leder, P.
 J. Biol. Chem. 267, 16305-16311, 1992
 A:Title: Ligand specificity and heparin dependence of fibroblast growth factor receptors
 A:Reference number: I55363; MUID:92355591; PMID:1379594
 A:Accession: I55363
 A:Status: preliminary; translated from GB/EMBL/DBJ
 A:Molecule type: mRNA
 A:Residues: 1-801 <RES>
 A:Cross-references: UNIPROT:Q61851; GB:M81342; NID:g199144; PIDN:AAA39535.1; PID:g199145
 R:Chellalath, A.T.; McEwen, D.G.; Werner, S.; Xu, J.; Ornitz, D.M.
 J. Biol. Chem. 269, 11620-11627, 1994
 A:Title: Fibroblast growth factor receptor (FGFR) 3. Alternative splicing in immunoglobulin
 A:Reference number: A53627; MUID:94209351; PMID:7512569
 A:Accession: B53627
 A:Status: preliminary
 A:Molecule type: DNA
 A:Residues: 242-364 <CHE>
 A:Cross-references: GB:L26492
 C:Genetics:
 A:Gene: mFR3
 A:Introns: 304/3; 353/1
 C:Superfamily: basic fibroblast growth factor receptor 1; immunoglobulin homology; prote
 C:Keywords: ATP; growth factor receptor
 F:262-335/Domain: immunoglobulin homology <IMM>
 F:464-750/Domain: protein kinase homology <KIN>
 F:472-480/Region: protein kinase ATP-binding motif

Query Match	23.8%;	Score 408.5;	DB 2;	Length 801;
Best Local Similarity	34.4%;	Pred. No. 6.3e-22;		
Matches 106;	Conservative 49;	Mismatches 114;	Indels 39;	Gaps 11;

```
QY      22 AAARGPPKMDKVVR-----QVA-RLGRTVRLQC-pVEGDPEPLTMWTKD   66
        | | | | | : | | | | | | | | | | | | | | | | | | | | | |
Db     16 AGATSEPPGPEDQRVVRRAAEVPGEPSQQEQVAFSGSDTVELSCHPPEGAPGTPTWAKD   75
        | | | | | : | | | | | | | | | | | | | | | | | | | | | |
QY      67 GRTIHSGWSRFRVLPOGLKVKOVEREDAGVVC--KATNGFGSLSVNYTLVLLDDISPGK  124
        | : | | | | | : | | | | | | | | | | | | | | | | | | | | | |
Db      76 GTGLVAS-HRIIVGFQRLQLVLNASHEDAGVYSQHRLTR--RVLCHEFSVRTDAPSSGD  131
        | : | | | | | : | | | | | | | | | | | | | | | | | | | | | |
QY     125 ESLGPDSSSGCEDDPASQQOWARPRFTOPSKMRRIARPVGSSVRLKCVASGHPRPIDTW  184
        : | | : | | : | | : | | : | | : | | : | | : | | : | | : | |
Db     132 DEDGEDVA---EDTGAPYW----TRPERMDKKLAVPAANTVRFRCPAAGNPPTSISW  182
        | | | | | : | | | | | : | | : | | : | | : | | : | | : | |
QY     185 MKDDQALT--RPEAAEPKKKWTLSLKNLRPEDSGKYTCRVSNRAGAINATYKVDVIOR   241
        : | : : | | : | | : | | : | | : | | : | | : | | : | | : | |
Db     183 LKNGKEFRGEHRIIGIKLRHQQMSLVME SVSPSDRGNYTCVENMKFGSIRQTYLLDVLER   242
        | | | | | : | | | | | : | | : | | : | | : | | : | | : | |
QY     242 TRSKPVLGTHTPVNTTVDFGGTSFQCKVRSDVKPVIQWLKRVEYGAEGRNSTIDVGQ   301
        : : | : | | | | | | | | | | | | | | | | | | | | | |
```

Db	243	SPHRPILOAGLPANQTALIGSDVEFHCKVYSDAQPHIQWLKHVEV----	NGSKVGPDGT	297
QY	302	KFV-VLPT	308	
		:		
Db	298	PYTVLKT	305	

RESULT 8

S38579

fibroblast growth factor receptor 3 - Iberian ribbed newt (fragment)
C/Species: Pleurodeles waltlil (Iberian ribbed newt)
C/Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 09-Jul-2004
C/Accession: S38579
R/Shi, D.L.; Fromentoux, V.; Launay, C.; Umbhauer, M.; Boucaut, J.C.
submitted to the EMBL Data Library, November 1993
A/Description: Expression of FGFR-3 in amphibian embryos.
A/Reference number: S38579
A/Accession: S38579
A/Status: preliminary
A/Molecule type: mRNA
A/Molecule type: mRNA
A/Residues: 1-797 <SHL>
A/Cross-references: UNIPROT:Q91287, EMBL:X75603
C/Superfamily: basic fibroblast growth factor receptor 1; immunoglobulin homology; protein
C/Keywords: ATP; growth factor receptor
F;258-331/Domain: immunoglobulin homology <IMM>
F;456-741/Domain: protein kinase homology <KIN>
F;464-472/Region: protein kinase ATP-binding motif

Query Match	23.3%;	Score 399.5;	DB 2;	Length 797;
Best Local Similarity	33.5%;	Pred. No. 2.8e-21;		
Matches 95; Conservative	43;	Mismatches 97;	Indels 49;	Gaps 8;

QY	44	GRTVRLOCPVEGDDPPLPTMTWTDGRTI-----HSGMSRFRVLPOGLKXVKOVEREDAGVY	97
	:	: : : : : :	:
Dd	50	GDTIELSCTTPSSSVSV-VWEKDGISVDPTWSHTG-----QKLKIINVSIDDSGVY	101
QY	98	VCKATNGFSLSVNYTLVVLDDISPFKESLGPDSSSGGEDEDPASQQOMARPRFTOPSKMRR	157
		: : : :	: :
Dd	102	SCKARQSSEVL-R-NVTVRVTD-----SPSSGDDEDDEESESANAPKFTRPEMMEK	151
QY	158	RVIARPVGSSVRLKCVAAGHPREDITWMKDQALT---RPEAAEPKKKWLTSLKNLRPE	214
	: : : :	: : : : : : :	: : : : : : :
Dd	152	KLAIVPANTVRFRCPAAGKPPTSITWLKNGKEFKGEHRIGIKLRHQOWSLWVESVPS	211
QY	215	DSGKYTCRAVSNRAGAINATYKVVDVIOQTRSKPVLGTGTHPVNTTVDFGGTTSFOCKVRSDV	274
	:	: : : : :	
Dd	212	DRGNVTCVVANKYGTIRETYLTDVLERTPHRPILQAQFRSNKTVVVGSDVEFHCKYYSDA	271
QY	275	KPVIQWLKRVEYGAEGRHNSTIDVGQKFEVLPFGDVMSRPDGS	318
	:		
Dd	272	QPHIQWLKHVE-----VNGSKF-----GPDGN	293

RESULT 9

A35963

protein-tyrosine kinase (EC 2.7.1.112) cek2 precursor - chicken
C/Species: Gallus gallus (chicken)
C/Date: 09-Nov-1990 #sequence_revision 09-Nov-1990 #text_change 09-Jul-2004
C/Accession: A35963
R/Pasquale, E.B.
Proc. Natl. Acad. Sci. U.S.A. 87, 5812-5816, 1990
A/Title: A distinctive family of embryonic protein-tyrosine kinase receptors.
A/Reference number: A35963; MUID:90332672; PMID:2165604
A/Accession: A35963
A/Status: preliminary
A/Molecule type: mRNA
A/Residues: 1-806 <PAS>
A/Cross-references: UNIPROT:P18460; GB:M35195; NID:g2111442; PIDN:AAA48664.1; PID:g2111443
C/Genetics:
A/Gene: cek2
C/Superfamily: basic fibroblast growth factor receptor 1; immunoglobulin homology; protease
C/Keywords: ATP; autophosphorylation; duplication; glycoprotein; growth factor receptor;
F,I-23/Domain: signal sequence #status predicted <Sig>

F;24-806/Product: protein-tyrosine kinase cek2 #status predicted <MAT>
F;24-368/Domain: extracellular #status predicted <EXT>
F;131-138/Region: acidic
F;262-335/Domain: immunoglobulin homology <IMM>
F;369-389/Domain: transmembrane #status predicted <TMM>
F;390-806/Domain: intracellular #status predicted <INT>
F;464-749/Domain: protein kinase homology <KIN>
F;472-480/Region: protein kinase ATP-binding motif
F;61-107,170-222,269-333/Dsulfide bonds: #status predicted
F;96,219,256,288,309,322/Binding site: carbohydrate (Asn) (covalent) #status predicted
F;502,519,611/Active site: Lys, Glu, Asp #status predicted
F;616,629/Binding site: magnesium (Asn, Asp) #status predicted
F;642/Binding site: phosphate (Tyr) (covalent) (by autophosphorylation) #status predicted

Query Match	22.9%;	Score 393.5;	DB 2;	Length 806;
Best Local Similarity	32.8%;	Pred. NO. 7.7e-21;		
Matches	98;	Conservative 52;	Mismatches 118;	Indels 31; Gaps 9;

```

QY      16 LGAFPAAARGPCK---MADKVPRQVARL-----GRTVRLQCPVEGDPPPLTMWTK 65
       ||| ||| ||| : | : : | : | : | : | : | : | : | : | : | : | : |
Db      17 VGAL-PAARRRGAERSGGQAAYLRSETAFLLELVFGSGDTIELSCNTQSSSVS-V-FWFX 74

QY      66 DGRTIHGSWSRFRVLFOGLVKOVEREDAGVIVCAITNGFSLSVNYTLVLLDDISPKGE 125
       || | | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db      75 DGIIGIAPS-NRTHIGOKLKLIINVSYDSDGLYSCKPRHSNEVLG-NFTVRVTD----- 125

QY      126 SLGPDSSSGQEDPASQQWARPRFTQPSKMRRVIARPVGSSVRLKCVASGHPRPDIWTM 185
       | | | | | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db      126 --SPSSGDEDDDESEDTEGVPFWRTPDKMEKKLAVPANTVRFRCPAGSNPTPIYWML 183

QY      186 KDDQALT--RPEAAEPRKKKTWLSLKNLRPEDSGKYTCRVSNRAGAINATYKVDVIORT 242
       | : : | | | | | : | : | : | : | : | : | : | : | : | : | : | : |
Db      184 KNKGEPKEGHRIGIKLRHQQWSLVMSVSPDRGNVTCVENNKYNIRHTYQLDVLEERS 243

QY      243 RSKPVLGTHPVNTTVDFEGCTTSFOCKVRSDVKPVIOWLKRVE-----YGAEGRHNSTI 296
       || : | : | | | | | | | | | | | | | | | | | | | | | : | : | : |
Db      244 PHRPILQAGLPANOTVVVGSNVEFHCKVYSDAQPHIQWLKHVEVNGSKYPDGTPPYTV 302

```

RESULT 10
TVHUF3
fibroblast growth factor receptor 3 precursor - human
N;Contains: protein-tyrosine kinase (EC 2.7.1.112)
C;Species: Homo sapiens (man)
C;Date: 31-Dec-1993 #sequence_revision 31-Dec-1993 #text_change 09-Jul-2004
C;Accession: A38576; A55273; E38269; I51880
R;Keegan, K.; Johnson, D.E.; Williams, L.T.; Hayman, M.J.
Proc. Natl. Acad. Sci. U.S.A. 88, 1095-1099, 1991
A;Title: Isolation of an additional member of the fibroblast growth factor receptor family
A;Reference number: A38576; MUID:91142118; PMID:1847508
A;Accession: A38576
A:Molecule type: mRNA
A;Residues: 1-806 <KEB>
A;Cross-references: UNIPROT:P22607; GB:M58051; NID:g182568; PIDN:AAA52450.1; PID:g182569
R;Thompson, L.M.; Plummer, S.; Schalling, M.; Altherer, M.R.; Gusella, J.F.; Housman, D.E.
Genomics 11, 1133-1142, 1991
A;Title: A gene encoding a fibroblast growth factor receptor isolated from the Huntingtcc
A;Reference number: A55273; MUID:92147110; PMID:1664411
A;Accession: A55273
A;Status: nucleic acid sequence not shown
A:Molecule type: mRNA
A;Residues: 76-394,'V',396-806 <THO>
A;Cross-references: GB:M64347; NID:g182564; PIDN:AAA58470.1; PID:g182565
A;Note: sequence extracted from NCBI backbone (NCBI:P:80296)
R;Partanen, J.; Maekelaie, T.P.; Alitalo, R.; Lehtvaeslahti, H.; Alitalo, K.
Proc. Natl. Acad. Sci. U.S.A. 87, 8913-8917, 1990
A;Title: Putative tyrosine kinases expressed in K-562 human leukemia cells.
A;Reference number: A38268; MUID:91062389; PMID:2247464
A;Accession: E38269
A:Molecule type: mRNA
A;Residues: 619-675 <PAR>
A;Cross-references: GB:M37782
R;Bellus, G.A.; Hefteron, T.W.; Ortiz de Luna, R.I.; Hecht, J.T.; Horton, W.A.; Machado,

Am. J. Hum. Genet. 56, 368-373, 1995
A/Title: Achondroplasia is defined by recurrent G380R mutations of FGFR3.
A/Reference number: 151880; MUID:95150025; PMID:7847369
A/Accession: 151880
A/Status: translated from GB/EMBL/DBJ
A/Molecule type: DNA
A/Residues: 361-379,'R',381-415 <RES>
A/Cross-references: GB:S76733; NID:g914201; PIDN:AAB33323.1; PID:g914202
A/Note: this sequence represents a mutant form associated with achondroplasia
C/Genetics:
A/Gene: GDB:FGFR3
A/Cross-references: GDB:127526; OMIM:100800; OMIM:134934
A/Map position: 4p16.3-4p16.3
C/Function:
A/Description: receptor for both acidic and basic fibroblast growth factors
C/Superfamily: basic fibroblast growth factor receptor 1; immunoglobulin homology; protei
C/Keywords: ATP; autophosphorylation; duplication; glycoprotein; growth factor receptor;
F/1-22/Domain: signal sequence #status predicted <SIG>
F/23-806/Product: fibroblast growth factor receptor 3 #status predicted <MAT>
F/23-375/Domain: extracellular #status predicted <EXT>
F/133-139/Region: acidic
F/268-341/Domain: immunoglobulin homology <IMM>
F/376-396/Domain: transmembrane #status predicted <TMM>
F/397-806/Domain: intracellular #status predicted <INT>
F/470-755/Domain: protein kinase homology <KIN>
F/478-486/Region: protein kinase ATP-binding motif
F/61-109,176-228,275-339/Disulfide bonds: #status predicted
F/98,225,262,294,315,328/Binding site: carbohydrate (Asn) (covalent) #status predicted
F/508,525,617/Active site: Lys, Glu, Asp #status predicted
F/622,635/Binding site: magnesium (Asn, Asp) #status predicted
F/648/Binding site: phosphate (Tyr) (covalent) (by autophosphorylation) #status predicted

```

Query Match      22.9%; Score 393; DB 1; Length 806;
Best Local Similarity 33.4%; Pred. No. 8.4e-21;
Matches 100; Conservative 49; Mismatches 116; Indels 34; Gaps 11;

Qy 22 AAARGPPKMDKVPVROVARL----GRTVRLQCPVEGDPP-PLTWTKDGRTIHSGWS 75
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 35 AAEVGPPE-----PGQEQQLVFGSGDAVELSCPPEGGPMGP-TVWVKDGTGLVPS-E 85

Qy 76 RFRVLPGQLKVKQVEREDAGVVC--KATNGFGLSVNTLVLLDISPKESLGPDDSS 133
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 86 RVLVGPQRLQVLNASHEDSGAYSCRQLTQ--RVLCHFVSVRTDAPSSGDDDEGEDEAE 142

Qy 134 GGOEDPASQOWARPRFTQPSKMRRIARPVGSSVRLKCVASGHPRDITWKKDQALT- 192
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 143 DTGVDTGAPYW-----TRPERMDKLLAVPANTVFRCPAAGNPTPSISWLKNGREFRG 197

Qy 193 --RPEAEPKKKWTLSLKNLRPDSGKYTCRVSNRAGAINATYKVVIQRTRSKPVLTG 250
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 198 EHRIGIGIKLRHQQMSLVMESVSPDRGNVTCVENKFGSIRQTYTLVLEERSPHRPLQA 257

Qy 251 THPVNTTVDFGGTTSFOCKVRSDVAKPVYIOMLKREYGAEGRHNSTIDVGQKQFV-VLPT 308
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 258 GLPANQTAVLGSDVEFHCKVYSDAQPHIQMLKHEV-----NGSKVGPDGTPYTVLTKT 311

RESULT 11
TWCHEG
fibroblast growth factor receptor 1 precursor - chicken
N:Alternate names: basic fibroblast growth factor receptor
N:Contains: protein-tyrosine kinase (EC 2.7.1.112) cekl
C:Species: Gallus gallus (chicken)
C:Date: 31-Dec-1993 #sequence_revision 31-Dec-1993 #text_change 09-Jul-2004
C:Accession: A41345; A33908
R:Lee, P.L.; Johnson, D.E.; Cousens, L.S.; Fried, V.A.; Williams, L.T.
Science 245; 57-60, 1989
A:Title: Purification and complementary DNA cloning of a receptor for basic fibroblast growth factor
A:Reference number: A41345; MUID:89298406; PMID:2544996
A:Accession: A41345
A:Status: nucleic acid sequence not shown; not compared with conceptual translation
A:Molecule type: mRNA
A:Residues: 1-819 <LEE>

```


Db 126 DSLASGDDE---DDEGDREDTADINEBPVFFQAPYWTQPHRMDKTLHAVPAGNTWK 182

QY 171 KCVASGHRPDI TWMKDDQALT---RPEAAEPRKKKWTLSKNLRPEDSGKYTCRVSNRA 227

Db 183 RCPAGGSPLPTIRWLKNGRERGERGHRIGGIRLRHQHMSLVMSVSPSDRGNTCVENRV 242

QY 228 GAINATYKVDVIQRTSRKPVLTGTHPVNTTVDGCGTTSFOCKVRSVDKPVIOWLKRYEYG 287

Db 243 GSLTYTYFLDLVLEERSHRPILOAGLPANTTARVGSDEVEFYCKVYSDAQPHIOWLKRIE-- 300

QY 288 AEGRHNSTIDVGQKF-----VVLPTGADV 311

Db 301 -----VNGSRFGPDPFPYVQVLKTADI 322

RESULT 14

S24108

protein-tyrosine kinase (EC 2.7.1.112) bek - chicken

N;Alternate names: receptor tyrosine kinase bek

C;Species: Gallus gallus (chicken)

C;Date: 25-Feb-1994 #sequence_revision 10-Nov-1995 #text_change 09-Jul-2004

C;Accession: S24108

R;Sato, M.; Kitazawa, T.; Iwai, T.; Seki, J.; Sakato, N.; Kato, J.; Takeya, T. Oncogene 6, 1279-1283, 1991

A;Title: Isolation of chicken-bek and a related gene; identification of structural variants

A;Reference number: S24108; MUID:91319411; PMID:1650446

A;Accession: S24108

A;Status: preliminary

A;Molecule type: mRNA

A;Residues: 1-824 <SAT>

A;Cross-references: UNIPROT:Q90749; EMBL:X61992; NID:g63085; PIDN:CAA43965.1; PID:g63086

C;Superfamily: basic fibroblast growth factor receptor 1; immunoglobulin homology; protein kinase

C;Keywords: ATP; growth factor receptor; phosphotransferase; tyrosine-specific protein kinase

F;174-235/Domain: immunoglobulin homology <IMM>

F;482-767/Domain: protein kinase homology <KIN>

F;490-498/Region: protein kinase ATP-binding motif

Query Match 22.3%; Score 383.5; DB 2; Length 824;

Best Local Similarity 30.0%; Pred. No. 4.2e-20;

Matches 91; Conservative 57; Mismatches 114; Indels 41; Gaps 9;

QY 44 GRTVRLQCPVEGDPPLTMTWKDG-----RTIHSGWSRFRVLPOGLKVKQVERDAGV 96

Db 58 GEPLLELRQQLK--DAVMISWTKDGVPLGPDNRTV-----IIGEYLQIKDASPRDSGL 107

QY 97 YVCKATNGFGLSVNYTLVLLDDISPKESLGPDSSSGQED--PASQQWABRPRTQPSK 154

Db 108 YACTAIRLDSDTLFIYVNTDALSSGDD---EDNDGSEDFVNDGNQMRAPYWTHTDK 163

QY 155 MRRRVRIARPVGSSVRLKCVASGHRPDI TWMKDDQALT--RPEAAEPRKKKWTLSLKNL 211

Db 164 MEKRLHAVPAANTVKRCPAMGNPTPTMRWLKNGKEFKQEHRIIGYKVRNQHWSLIMESV 223

QY 212 RPEDSGKYTCRVSNRAGAINATYKVDVIQRTSRKPVLTGTHPVNTTVDGCGTTSFOCKVR 271

Db 224 VPSDKGNVTCIVENQYGSINHTYHLDVVERSPHRPILQAGLPANASAVVGDDVEFVCKVY 283

QY 272 SDVKPVIOWLKRYE-----YGAEG-----RHNSTIDVGQKFVVLPTGDVWSRPDGSY 319

Db 284 SDAQPHIOWKRYERNNGSKYGPDLPLYQLVKHSG--INSSNAEVLTLVNTVEADAGEY 340

QY 320 LNK 322

Db 341 ICK 343

RESULT 15

TVHUF4

fibroblast growth factor receptor 4 precursor - human

N;Alternate names: protein-tyrosine kinase tkf

N;Contains: protein-tyrosine kinase (EC 2.7.1.112)

C;Species: Homo sapiens (man)

C;Date: 31-Dec-1993 #sequence_revision 31-Dec-1993 #text_change 09-Jul-2004

C;Accession: S15345; A46615; A41598; D38269

R;Partanen, J.; Maekela, T.P.; Berola, E.; Korhonen, J.; Hirvonen, H.; Claesson-Welsh, I. EMBO J. 10, 1347-1354, 1991

A;Title: FGFR-4, a novel acidic fibroblast growth factor receptor with a distinct expression pattern

A;Reference number: S15345; MUID:91224085; PMID:1709094

A;Accession: S15345

A;Molecule type: mRNA

A;Residues: 1-802 <PAR>

A;Cross-references: UNIPROT:P22455; EMBL:X57205; NID:g31371; PIDN:CAA40490.1; PID:g31372

A;Note: binds acidic but not basic fibroblast growth factor with high affinity

R;Ron, D.; Reich, R.; Chedid, M.; Lengel, C.; Cohen, O.E.; Chan, A.M.; Neufeld, G.; Winkler, J. Biol. Chem. 268, 5388-5394, 1993

A;Title: Fibroblast growth factor receptor 4 is a high affinity receptor for both acidic and basic fibroblast growth factors

A;Reference number: A46615; MUID:93194827; PMID:7680645

A;Accession: A46615

A;Status: nucleic acid sequence not shown; not compared with conceptual translation

A;Molecule type: mRNA

A;Residues: 1-296, 'D', 298-802 <RON>

A;Experimental source: mammary epithelial cell line B5/589

A;Note: sequence extracted from NCBI backbone (NCBIP:127650)

A;Note: binds acidic and basic fibroblast growth factors with high affinity

R;Holtlich, U.; Braeuninger, A.; Streibhardt, K.; Ruebsamen-Waigmann, H. Proc. Natl. Acad. Sci. U.S.A. 88, 10411-10415, 1991

A;Title: Two additional protein-tyrosine kinases expressed in human lung: fourth member of the FGFR family

A;Reference number: S19025; MUID:92073297; PMID:1720539

A;Accession: A41598

A;Status: nucleic acid sequence not shown; not compared with conceptual translation

A;Molecule type: mRNA

A;Residues: 399-534, 'M', 536-799, 'SG', 800-802 <HOL>

A;Experimental source: lung

R;Partanen, J.; Maekela, T.P.; Alitalo, R.; Lehtvaeslahti, H.; Alitalo, K. Proc. Natl. Acad. Sci. U.S.A. 87, 8913-8917, 1990

A;Title: Putative tyrosine kinases expressed in K-562 human leukemia cells.

A;Reference number: A38268; MUID:91062389; PMID:2247464

A;Accession: D38269

A;Molecule type: mRNA

A;Residues: 614-670 <PA2>

A;Cross-references: GB:M37781

A;Experimental source: K-562 leukemia cell line

C;Genetics:

A;Gene: GDB:FGFR4

A;Cross-references: GDB:127929; OMIM:134935

A;Map position: 5q33.2-5qter

C;Function:

A;Description: receptor mediating effects of fibroblast growth factor

A;Note: expressed in normal lung; expressed in some carcinomas

C;Superfamily: basic fibroblast growth factor receptor 1; immunoglobulin homology; protein kinase

C;Keywords: ATP; autophosphorylation; duplication; glycoprotein; growth factor receptor;

F;1-24/Domain: signal sequence #status predicted <SIG>

F;25-802/Product: fibroblast growth factor receptor 4 #status predicted <MAT>

F;25-369/Domain: extracellular #status predicted <EXT>

F;50-103/Domain: immunoglobulin homology <IM1>

F;165-226/Domain: immunoglobulin homology <IM2>

F;370-390/Domain: transmembrane #status predicted <TM>

F;391-802/Domain: intracellular #status predicted <INT>

F;465-750/Domain: protein kinase ATP-binding motif

F;473-481/Region: protein kinase ATP-binding motif

F;57-101, 172-224, 271-333/Disulfide bonds: #status predicted

F;112, 258, 290, 311, 322/Binding site: carbohydrate (Asn) (covalent) #status predicted

F;503, 520, 612/Active site: Lys, Glu, Asp #status predicted

F;617, 630/Binding site: magnesium (Asn, Asp) #status predicted

F;643/Binding site: phosphate (Tyr) (covalent) (by autophosphorylation) #status predicted

Query Match 22.3%; Score 382.5; DB 1; Length 802;

Best Local Similarity 31.3%; Pred. No. 4.8e-20;

Matches 109; Conservative 50; Mismatches 136; Indels 53; Gaps 12;

QY 6 LLLLLPPLLGAFPAAARG-----PPKADKVVPRQ---VARLGRVRLQCPVEGD 56

Db 3 LLLALLGLVLSVGPVPLSLSEASEVELEPCLAPSLDQGEQLTVAGQPVRLCC---GR 59

QY 57 PPPLTMTKDGRIHSGWSRFRVLPQG-----LKVQVEREDAGVYVCKATNGPSL 108
Db 60 AERGHWYKEGS-----RLAPAGRVRGWRGLLEIASFLPEDAGRYLCLAR--GSM 107
QY 109 SV--NYTLVVLDDISPGKESLGPDDSSGGQEDPA---SQQWARPRFTQPSKMRRRVIARP 163
Db 108 IVLQNLTLITGDSLTSNDDDEPKS---HRDPSNRHSYPQOAPYWTHPQRMKKLHAVP 163
QY 164 VGSSVRLKCVASGHPBDITWMKDDQAL---TRPEAAEPRKKKWTLSLKNLRPEDSGKYT 220
Db 164 AGNTVKFRCPAAGNPTPTIRWLKDQAFHGENRIGGIRLRHQHWSLWMSVVPDRGTYT 223
QY 221 CRVSNRAGAINATYKYVDVIQTRSKPVLGTGHPVNTTVDFGTTSFQCKVRSVDVKPVIQW 280
Db 224 CLVENAVGSIRYNYLLDVLEKSPHRPILQAGLPANTTAVVGSDELLECKYISDAQPHIQW 283
QY 281 LKRV-----EYGAEG---RHNSTIDVGQKFFVVLPTGDVWSRPPDSY 319
Db 284 LKHIVINGSSFGAVGFPYQVLKTADINSSEVEVLYLRNVSADAGEY 331

Search completed: February 2, 2005, 18:26:28
Job time : 22 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: February 2, 2005, 18:16:50 ; Search time 194 Seconds
(without alignments)
960.935 Million cell updates/sec

Title: US-10-613-413B-8
Perfect score: 1717
Sequence: 1 MTPSPLLLLLPPLLGAFF.....VLPTGDVMSRPDGSYLNKPL 324

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1825181 segs, 575374646 residues

Total number of hits satisfying chosen parameters: 1825181

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : UniProt 02:*
1: uniprot_sprot:*
2: uniprot_trembl:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1707	99.4	497	2 Q9BXN7	Q9bxn7 homo sapien
2	1707	99.4	504	2 Q8N441	Q8n441 homo sapien
3	1707	99.4	504	2 Q9H4D7	Q9h4d7 homo sapien
4	1707	99.4	504	2 AAQ88670	AaQ88670 homo sapi
5	1561	90.9	529	2 Q7TQM3	Q7tqm3 rattus norv
6	1560	90.9	529	2 Q91V87	Q91v87 mus musculu
7	1560	90.9	529	2 AAH58745	Aah58745 mus muscu
8	1553	90.4	440	2 Q6ZMD4	Q6zmd4 homo sapien
9	1553	90.4	440	2 BAD18794	Bad18794 homo sapi
10	1507	87.8	509	2 Q920C2	Q920c2 mus musculu
11	1306	76.1	487	2 Q7T2H2	Q7t2h2 gallus gall
12	1193.5	69.5	483	2 Q7SX76	Q7sx76 brachydanio
13	1035.5	60.3	438	2 Q920C3	Q920c3 mus musculu
14	894	52.1	350	2 Q6PJN1	Q6pjn1 homo sapien
15	894	52.1	350	2 AAH13955	Aah13955 homo sapi
16	425.5	24.8	812	1 FGRL_XENLA	P22182 xenopus lae
17	424.5	24.7	800	2 Q918X3	Q918x3 brachydanio
18	424.5	24.7	814	2 Q91897	Q91897 xenopus lae
19	423.5	24.7	810	2 Q9PS96	Q9ps96 xenopus lae
20	422	24.6	822	2 Q91288	Q91288 pleurodeles
21	415.5	24.2	802	2 Q42127	Q42127 xenopus lae
22	413	24.1	827	2 Q6GNS5	Q6gn5 xenopus lae
23	409	23.8	800	2 Q99052	Q99052 mus musculu
24	408.5	23.8	800	2 Q7TSI8	Q7tsi8 mus musculu
25	408.5	23.8	801	1 FGR3_MOUSE	Q61851 mus musculu
26	399.5	23.3	796	2 Q91287	Q91287 pleurodeles
27	399.5	23.3	802	2 Q95M13	Q95m13 bos taurus
28	398	23.2	370	2 Q800Y8	Q800y8 brachydanio
29	398	23.2	800	2 Q9JHX9	Q9jhx9 rattus norv
30	394.5	23.0	771	2 Q8N116	Q8n116 homo sapien
31	393.5	22.9	806	1 CEK2_CHICK	P18460 gallus gall

32	393	22.9	806	1 FGR3_HUMAN	P22607 homo sapien
33	392.5	22.9	446	2 Q63236	Q63236 rattus norv
34	392.5	22.9	819	1 FGRL_CHICK	P21804 gallus gall
35	392	22.8	692	2 Q800Y9	Q800y9 brachydanio
36	392	22.8	756	2 Q800Z0	Q800z0 brachydanio
37	392	22.8	804	2 Q800Z1	Q800z1 brachydanio
38	392	22.8	806	2 Q90Z00	Q90z00 brachydanio
39	389.5	22.7	769	2 Q8N115	Q8n115 homo sapien
40	389.5	22.7	822	2 Q9QVV7	Q9qvv7 rattus sp.
41	388.5	22.6	446	2 Q63237	Q63237 rattus norv
42	387.5	22.6	807	2 Q6DD66	Q6dd66 xenopus lae
43	387.5	22.6	818	2 Q9PSV9	Q9psv9 xenopus lae
44	387.5	22.6	828	2 Q9DGK3	Q9dgtk3 xenopus lae
45	387	22.5	815	2 Q805B9	Q805b9 brachydanio

ALIGNMENTS

RESULT 1									
Q9BXN7	PRELIMINARY;	PRT;	497 AA.						
ID	Q9BXN7								
AC	Q9BXN7;								
DT	01-JUN-2001 (TREMBLrel. 17, Created)								
DT	01-JUN-2001 (TREMBLrel. 17, Last sequence update)								
DT	01-OCT-2003 (TREMBLrel. 25, Last annotation update)								
DE	FGF homologous factor receptor.								
GN	Name=FHFR;								
OS	Homo sapiens (Human).								
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;								
OC	Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.								
OX	NCBI_TaxID=9606;								
RN	[1]								
RP	SEQUENCE FROM N.A.								
RA	Aggarwal S., Xie M.-H., Foster J., Frantz G., Stinson J., Corpuz R.T.,								
RA	Simmons L., Hillan K., Yansura D.G., Vandlen R.L., Goddard A.D.,								
RA	Gurney A.L.;								
RL	Submitted (OCT-2000) to the EMBL/GenBank/DBJ databases.								
DR	EMBL; AF312678; AAK15273.1; -.								
DR	HSSP; P11362; IEVT.								
DR	GO; GO:0004872; F:receptor activity; IEA.								
DR	InterPro; IPR007110; Ig-1-like.								
DR	InterPro; IPR003598; Ig_c2.								
DR	Pfam; PF00047; Ig_3.								
DR	SMART; SM00408; IGC2; 2.								
DR	PROSITE; PS50835; IG_LIKE; 3.								
KW	Receptor.								
SQ	SEQUENCE 497 AA; 53757 MW; 57301F4F36357360 CRC64;								
Query Match 99.4%; Score 1707; DB 2; Length 497;									
Best Local Similarity 99.7%; Pred. No. 9.1e-124;									
Matches 323; Conservative 0; Mismatches 1; Indels 0; Gaps 0									
QY	1 MTPSPLLLLLPPLLGAFFPAAAGPPKMAADKVPVPROVARLGRIVRLQCPVEGDPPL 60								
DB	1 MTPSPLLLLLPPLLGAFFPAAAGPPKMAADKVPVPROVARLGRIVRLQCPVEGDPPL 60								
QY	61 TMWTKDGRTHSGWSRFRVLPGGLKVKOVEREDAGVYVCKATNGFSLSVNYTLVLDI 120								
DB	61 TMWTKDGRTHSGWSRFRVLPGGLKVKOVEREDAGVYVCKATNGFSLSVNYTLVLDI 120								
QY	121 SPKESLGPDSSSGGQEDPASQOWARPRFTQPSKMRRRVIARPVGSSVRLKCVASGHPRP 180								
DB	121 SPKESLGPDSSSGGQEDPASQOWARPRFTQPSKMRRRVIARPVGSSVRLKCVASGHPRP 180								
QY	181 DITWMDQDALTRPEAAEPRKKKWTLSLKNLRPDSGKYTCRVSNRGAINATYKVDVIQ 240								
DB	181 DITWMDQDALTRPEAAEPRKKKWTLSLKNLRPDSGKYTCRVSNRGAINATYKVDVIQ 240								
QY	241 RTRSKPVLTGTHPVNTTVDFGGTTSFQCKVRSVDKPVIIQWLKRVEYGAEGRHNSTIDVG 300								
DB	241 RTRSKPVLTGTHPVNTTVDFGGTTSFQCKVRSVDKPVIIQWLKRVEYGAEGRHNSTIDVG 300								

QY 301 QKEVVLPTGDVWSRPDGSYLNKPL 324
Db 301 QKEVVLPTGDVWSRPDGSYLNKLL 324

RESULT 2
Q8N441 PRELIMINARY; PRT; 504 AA.
ID Q8N441
AC Q8N441;
DT 01-OCT-2002 (Tremblrel. 22, Created)
DT 01-OCT-2002 (Tremblrel. 22, Last sequence update)
DT 01-OCT-2004 (Tremblrel. 28, Last annotation update)
DE Fibroblast growth factor receptor-like 1, (FGFRL1).
GN Name=FGFRL1; ORFNames=UNQ480;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RN SEQUENCE FROM N.A.
RC TISSUE=Brain;
RX MEDLINE=22386257; PubMed=12477932;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullany S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Kettelman M., Madan A., Rodrigues S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
RA Krzywinski M.I., Skalska U., Smallus D.E., Schnerch A., Schein J.E.,
RA Jones S.J., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN [2]
RN SEQUENCE FROM N.A.
RC TISSUE=Brain;
RA Strausberg R.;
RL Submitted (Aug-2002) to the EMBL/GenBank/DBJ databases.
RN [3]
RN SEQUENCE FROM N.A.
RX MEDLINE=22887296; PubMed=12975309;
RA Clark H.F., Gurney A.L., Abaya E., Baker K., Baldwin D., Brush J.,
RA Chen J., Chow B., Chui C., Crowley C., Currell B., Deuel B., Dowd P.,
RA Eaton D., Foster J., Grimaldi C., Gu Q., Hass P.E., Heldens S.,
RA Huang A., Kim H.S., Klimowski L., Jin Y., Johnson S., Lee J.,
RA Lewis L., Liao D., Mark M., Robbie E., Sanchez C., Schoenfeld J.,
RA Seshagiri S., Simons L., Singh J., Smith V., Stinson J., Vagts A.,
RA Vandlen R., Watanabe C., Wiand D., Woods K., Xie M.H., Yansura D.,
RA Yi S., Yu G., Yuan J., Zhang M., Zhang Z., Goddard A., Wood W.I.,
RA Godowski P.;
RT "The secreted protein discovery initiative (SPDI), a large-scale
RT effort to identify novel human secreted and transmembrane proteins: a
RT bioinformatics assessment.";
RL Genome Res. 13:2265-2270(2003).
DR EMBL; BC036769; AAH36769.1; -.
DR EMBL; AY358303; AAQ8670.1; -.
DR HSSP; P11362; LEVT.
DR Genew; HGNC:3693; FGFRL1.
DR GO; GO:0004872; F:receptor activity; IEA.
DR InterPro; IPR007110; IG-like.
DR Pfam; PF00047; IG; 3.
DR PROSITE; PS50835; IG_LIKE; 3.
KW Receptor.
SQ SEQUENCE 504 AA; 54536 MW; 56E35E57D5FC141B CRC64;

Query Match 99.4%; Score 1707; DB 2; Length 504;
Best Local Similarity 99.7%; Pred. No. 9.2e-124;
Matches 323; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MTPSPLLLLLPPLLIGAFPPAAARGPPKMDKVPPROVARLGRTVRLQCPVEGDPPL 60
Db 1 MTPSPLLLLLPPLLIGAFPPAAARGPPKMDKVPPROVARLGRTVRLQCPVEGDPPL 60
QY 61 TMTKDGRTIHSGWRRFVLPQGLKVKQVEREAGVYVCKATNGFSGLSVNTLVLDI 120
Db 61 TMTKDGRTIHSGWRRFVLPQGLKVKQVEREAGVYVCKATNGFSGLSVNTLVLDI 120
QY 121 SPGKESLGPDDSSGGQEDPASQQWARPRFTQPSKRRRVIRPVGSSVRLKVASGHPRP 180
Db 121 SPGKESLGPDDSSGGQEDPASQQWARPRFTQPSKRRRVIRPVGSSVRLKVASGHPRP 180
QY 181 DITWKKDQALTRPEAAEPRKKWTLSTKNIPEDSGKYTCRVSNRAGINATYKVDVIQ 240
Db 181 DITWKKDQALTRPEAAEPRKKWTLSTKNIPEDSGKYTCRVSNRAGINATYKVDVIQ 240
QY 241 RTRSKPVLITGTHPVNTTVDGEGTTSFQCKVRSDVKPVIOMLKRVVEYGAEGHNSITIDVG 300
Db 241 RTRSKPVLITGTHPVNTTVDGEGTTSFQCKVRSDVKPVIOMLKRVVEYGAEGHNSITIDVG 300
QY 301 QKEVVLPTGDVWSRPDGSYLNKPL 324
Db 301 QKEVVLPTGDVWSRPDGSYLNKLL 324

RESULT 3
Q9H4D7 PRELIMINARY; PRT; 504 AA.
ID Q9H4D7
AC Q9H4D7;
DT 01-MAR-2001 (Tremblrel. 16, Created)
DT 01-MAR-2001 (Tremblrel. 16, Last sequence update)
DT 05-JUL-2004 (Tremblrel. 27, Last annotation update)
DE FGFR-like protein precursor (Fibroblast growth factor receptor
DE 5).
GN Name=FGFRL1; Synonyms=FGFR5;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RN SEQUENCE FROM N.A.
RC TISSUE=Cartilage;
RX PubMed=11031111;
RA Wiedemann M., Trueb B.;
RT "Characterization of a novel protein (FGFRL1) from human cartilage
RT related to FGF receptors.";
RL Genomics 69:275-279(2000).
RN [2]
RN SEQUENCE FROM N.A.
RX MEDLINE=21167383; PubMed=11267671;
RA Kim I., Moon S.O., Yu K.H., Kim U.H., Koh G.Y.;
RT "A novel fibroblast growth factor receptor-5 preferentially expressed
RT in the pancreas.";
RL Blochim. Biophys. Acta 1518:152-156(2001).
DR EMBL; AJ277437; CAC14171.1; -.
DR EMBL; AF279689; AAK26742.1; -.
DR HSSP; P11362; LEVT.
DR GO; GO:0016021; C:integral to membrane; NAS.
DR GO; GO:0005007; F:Fibroblast growth factor receptor activity; NAS.
DR GO; GO:0001558; P:regulation of cell growth; NAS.
DR InterPro; IPR003598; IG_c2.
DR Pfam; PF00047; IG; 3.
DR SMART; SM00408; IGC2; 2.
DR PROSITE; PS50835; IG_LIKE; 3.
KW Receptor; Signal.
FT SIGNAL 1
SQ SEQUENCE 504 AA; 54567 MW; 16382E57D4276485 CRC64;

Db 237 RTRSKPVLGTGHPVNTTYDFGTTSFQCKVRSVDKPVIOWLKRVYEGSEGRHNSTIDVGG 296
QY 301 QKFVVLPTGVDWSRPGDGYLNKPL 324
Db 297 QKFVVLPTGVDWSRPGDGYLNKLL 320

RESULT 6

Q91V87 PRELIMINARY; PRT; 529 AA.
ID Q91V87
AC Q91V87;
DT 01-DEC-2001 (TREMBLrel. 19, Created)
DT 01-DEC-2001 (TREMBLrel. 19, Last sequence update)
DT 01-OCT-2004 (TREMBLrel. 28, Last annotation update)
DE Fibroblast growth factor receptor 5 beta precursor (FGF receptor-like protein 1 precursor) (Fibroblast growth factor receptor-like 1).
GN Name=Fgfr11; Synonyms=FGFRL1, Fgfr5;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=BALB/c;
RX MEDLINE=21311632; PubMed=11418238;
RA Sleeman M., Fraser J.K., Watson J.D., Kumble K.D., Murison J.G., Kumble K., Watson J.D., Murison J.G.;
RT "Identification of a new fibroblast growth factor receptor, FGFR5.";
RL Gene 271:171-182(2001).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=BALB/c;
RA Sleeman M.A., Fraser J.K., Watson J.D., Kumble K.D., Murison J.G.;
RL Submitted (NOV-2000) to the EMBL/GenBank/DBJ databases.
RN [3]
RP SEQUENCE FROM N.A.
RC TISSUE=Cartilage;
RX MEDLINE=21450304; PubMed=11566361;
RA Wiedemann M., Trueb B.;
RT "The mouse Fgfr1 gene coding for a novel FGF receptor-like protein.";
RL Biochim. Biophys. Acta 1520:247-250(2001).
RN [4]
RP SEQUENCE FROM N.A.
RC STRAIN=BALB/c; TISSUE=Liver;
RX PubMed=11031111;
RA Wiedemann M., Trueb B.;
RT "Characterization of a novel protein (FGFRL1) from human cartilage related to FGF receptors.";
RL Genomics 69:275-279(2000).
RN [5]
RP SEQUENCE FROM N.A.
RC STRAIN=BALB/c; TISSUE=Liver;
RA Wiedemann M., Trueb B.;
RL Submitted (DEC-2002) to the EMBL/GenBank/DBJ databases.
RN [6]
RP SEQUENCE FROM N.A.
RC STRAIN=FVB/N-3;
RC TISSUE=Mammary tumor. MMTV-LTR/INT3 model. 5 month old mouse. Taken by biopsy.;
RX MEDLINE=22388257; PubMed=12477932;
RA Strauberg R.L., Feingold E.A., Grouse L.H., Derge J.G., Schuler G.D., Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D., Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K., Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F., Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L., Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E., Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C., Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullany S.J., Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H., Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W., Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A., Fahey J., Helton E., Kettelman M., Madan A., Rodriguez S., Sanchez A.,

RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G., RA Blakeley R.W., Touchman J.W., Green E.D., Dickson M.C., RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S., RA Krzywinski M.I., Skalska U., Smalhus D.E., Scherch A., Schein J.E., RA Jones S.J., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human RT and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN [7]

RP SEQUENCE FROM N.A.
RC STRAIN=FVB/N-3;
RC TISSUE=Mammary tumor. MMTV-LTR/INT3 model. 5 month old mouse. Taken by biopsy.;
RA Strauberg R.;
RL Submitted (SEP-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF321300; AAL06295.1; -.
DR EMBL; AJ293947; CAC82376.1; -.
DR EMBL; AJ308490; CAC83768.1; -.
DR EMBL; BC058745; AAH58745.1; -.
DR HSSP; P11362; LEVT.
DR MGD; MG1:2150920; Fgfr11.
DR GO; GO:0005886; C:plasma membrane; IDA.
DR GO; GO:0005515; F:protein binding; IPI.
DR GO; GO:0008285; P:negative regulation of cell proliferation; IDA.
DR InterPro; IPR007110; Ig-like.
DR Pfam; PF00047; ig; 3.
DR PROSITE; PS50835; IG_LIKE; 3.
KW Receptor; Signal.
FT SIGNAL 1 20 Potential.
FT CHAIN 21 529 fibroblast growth factor receptor 5 beta.
SQ SEQUENCE 529 AA; 57013 MW; 6CE76A75BFE2498DD CRC64;

Query Match 90.9%; Score 1560; DB 2; Length 529;
Best Local Similarity 91.4%; Pred. No. 2.4e-112;
Matches 296; Conservative 9; Mismatches 15; Indels 4; Gaps 1;

QY 1 MTPSPLLLLPPLLGAFPAAARGPCKADKVPVPRQVRLGRTVRLQCPVEGDPPL 60
Db 1 MTRSPALL---LILGALPSAEARGPVADKVPVPRQVRLGRTVRLQCPVEGDPPL 56
QY 61 TMWTKDGRTHSGNSRFRVLPQGLKVKQVEREDAGVYVCATNGFGLSVNYTLVLDI 120
Db 57 TMWTKDGRTHSGNSRFRVLPQGLKVKVEADAGVYVCATNGFGLSVNYTLIMDI 116
QY 121 SPGESLGPDSGSGQEDPASQOWARPRFTQPSKRRRVIRAPVGSVRLKCVASGHRP 180
Db 117 SPGESPGPGSSGSGQEDPASQOWARPRFTQPSKRRRVIRAPVGSVRLKCVASGHRP 176
QY 181 DITWMKDDQALTRPEAEPRKKKWTLSLKNLRPDSGKYTCRVSNRAGAINATYKVDVIQ 240
Db 177 DIMMKDDQTLTHLEASEHRKKWTLSLKNLRPDSGKYTCRVSNKAGAINATYKVDVIQ 236
QY 241 RTRSKPVLGTGHPVNTTYDFGTTSFQCKVRSVDKPVIOWLKRVYEGSEGRHNSTIDVGG 300
Db 237 RTRSKPVLGTGHPVNTTYDFGTTSFQCKVRSVDKPVIOWLKRVYEGSEGRHNSTIDVGG 296
QY 301 QKFVVLPTGVDWSRPGDGYLNKPL 324
Db 297 QKFVVLPTGVDWSRPGDGYLNKLL 320

RESULT 7
AAH58745
ID AAH58745 PRELIMINARY; PRT; 529 AA.
AC AAH58745;
DT 02-MAR-2004 (TREMBLrel. 27, Created)
DT 02-MAR-2004 (TREMBLrel. 27, Last sequence update)
DT 02-MAR-2004 (TREMBLrel. 27, Last annotation update)
DE Fibroblast growth factor receptor-like 1.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;


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RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=FVB/N-3; TISSUE=Mammary tumor;
RX MEDLINE=22388257; PubMed=12477932;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Donald M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaly S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Kettelman M., Madan A., Rodriguez S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
RA Krzywinski M.I., Skalska U., Smallos D.E., Schnerch A., Schein J.E.,
RA Jones S.J., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=FVB/N-3; TISSUE=Mammary tumor;
RA Strausberg R.;
RL Submitted (SEP-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC058745; AAH58745.1; -.
KW Receptor.
SQ SEQUENCE 529 AA; 57013 MW; 6CE76A75BF2498DD CRC64;

Query Match 90.9%; Score 1560; DB 2; Length 529;
Best Local Similarity 91.4%; Pred. No. 2.4e-112;
Matches 296; Conservative 9; Mismatches 15; Indels 4; Gaps 1;

QY 1 MTPSPILLPLLLPPLLGAFPFAAARGPPKMAADKVPVPROVARLGRTYRLQCPVEGDPPL 60
Db 1 MTRSPALLL---LLLGALPSAEARGPFRMADKVPVROVARLGRTYRLQCPVEGDPPL 56

QY 61 TMWTKDGRTHSGWSRFRVLPQGLKVKQVEREDAGVYVCKATNGFSGLSVNTLVLDI 120
Db 57 TMWTKDGRTHSGWSRFRVLPQGLKVKVEAEDAAGVYVCKATNGFSGLSVNTLIIMDI 116

QY 121 SPGKESLGPDSGGQEDPASQOWARPRFTQPSKMRRRVIARPVGSSVRLKCVASGHPRP 180
Db 117 SPGKESPGPGSSGGQEDPASQOWARPRFTQPSKMRRRVIARPVGSSVRLKCVASGHPRP 176

QY 181 DITWMKDDQALTRPEAAEPRKKKWTLSLKULRPEDSGKYTCRVSNRAGAINATYKVDVIQ 240
Db 177 DIMWKKDDQTLTHLEASEHRKKKWTLSLKULRPEDSGKYTCRVSNKGAINATYKVDVIQ 236

QY 241 RTRSKPVLGTGHPVNTTVDFGGTTSFOCKVRSADV KPVIOWLKRVYGAEGRHNSTIDVG 300
Db 237 RTRSKPVLGTGHPVNTTVDFGGTTSFOCKVRSADV KPVIOWLKRVYGAEGRHNSTIDVG 296

QY 301 OKFVVLPTGDVWSRPDGSYLKPL 324
Db 297 OKFVVLPTGDVWSRPDGSYLKPL 320

RESULT 8
Q6ZMD4 PRELIMINARY; PRT; 440 AA.
ID Q6ZMD4;
AC Q6ZMD4;
DT 05-JUL-2004 (TREMBLrel. 27, Created)
DT 05-JUL-2004 (TREMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TREMBLrel. 27, Last annotation update)
DE Hypothetical protein FLJ23990.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

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OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Kawabata A., Hikiji T., Kobatake N., Inagaki H., Ikema Y., Okamoto S.,
RA Okitani R., Ota T., Suzuki Y., Obayashi M., Nishi T., Shibahara T.,
RA Tanaka T., Nakamura Y., Isogai T., Sugano S.;
RL Submitted (APR-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL; AK172829; BAD18794.1; -.
DR GO; GO:0004872; F:receptor activity; IEA.
DR InterPro; IPR003599; Ig.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR Pfam; PF00047; Ig; 3.
DR SMART; SM00409; Ig; 3.
DR SMART; SM00408; Igc2; 3.
DR PROSITE; PS50835; IG_LIKE; 3.
KW Receptor.
SQ SEQUENCE 440 AA; 47587 MW; 2B6E0C2285AC3B59 CRC64;

Query Match 90.4%; Score 1553; DB 2; Length 440;
Best Local Similarity 99.7%; Pred. No. 6.6e-112;
Matches 293; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 31 MADKVPRQVARLGRTVRLQCPVEGDPPLTMTWKDGRTHSGWSRFRVLPQGLKVKQVE 90
Db 1 MADKVPRQVARLGRTVRLQCPVEGDPPLTMTWKDGRTHSGWSRFRVLPQGLKVKQVE 60

QY 91 REDAGVYVCKATNGFGSLSVNTLVLDISPGKESLGPDSGGQEDPASQOWARPRFT 150
Db 61 REDAGVYVCKATNGFGSLSVNTLVLDISPGKESLGPDSGGQEDPASQOWARPRFT 120

QY 151 QPSKMRRRVIARPVGSSVRLKCVASGHPRPDITWMKDDQALTRPEAEPRKKKWTLSLKN 210
Db 121 QPSKMRRRVIARPVGSSVRLKCVASGHPRPDITWMKDDQALTRPEAEPRKKKWTLSLKN 180

QY 211 LRPEDSGKYTCRVSNRAGAINATYKVDVIQRTSKPVLGTGHPVNTTVDFGGTTSFOCKV 270
Db 181 LRPEDSGKYTCRVSNRAGAINATYKVDVIQRTSKPVLGTGHPVNTTVDFGGTTSFOCKV 240

QY 271 RSDV KPVIOWLKRVYGAEGRHNSTIDVGOKFVVLPTGDVWSRPDGSYLKPL 324
Db 241 RSDV KPVIOWLKRVYGAEGRHNSTIDVGOKFVVLPTGDVWSRPDGSYLKPL 294

RESULT 9
BAD18794 PRELIMINARY; PRT; 440 AA.
ID BAD18794;
AC BAD18794;
DT 12-MAY-2004 (TREMBLrel. 27, Created)
DT 12-MAY-2004 (TREMBLrel. 27, Last sequence update)
DT 12-MAY-2004 (TREMBLrel. 27, Last annotation update)
DE CDNA FLJ23990 f1s, clone HRC08053, highly similar to Homo sapiens
DE fibroblast growth factor receptor-like 1 (FGFR1).
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Kawabata A., Hikiji T., Kobatake N., Inagaki H., Ikema Y., Okamoto S.,
RA Okitani R., Ota T., Suzuki Y., Obayashi M., Nishi T., Shibahara T.,
RA Tanaka T., Nakamura Y., Isogai T., Sugano S.;
RL "NEDO human cDNA sequencing project.";
RT Submitted (APR-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL; AK172829; BAD18794.1; -.
KW Receptor.
SQ SEQUENCE 440 AA; 47587 MW; 2B6E0C2285AC3B59 CRC64;

Query Match 90.4%; Score 1553; DB 2; Length 440;
Best Local Similarity 99.7%; Pred. No. 6.6e-112;
Matches 293; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 31 MADKVPRQVARLGRTVRLQCPVEGDPPLTMTWKDGRTHSGWSRFRVLPQGLKVKQVE 90

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Db 1 MADKVPVROVARLGRTVRLQCPVEGDDPPPLTMWTKDGRTHSGWSRFRVLPQGLKYKQVE 60
QY 91 REDAGVYVCKATNGFGLSVNYTLVLDDISPGKESLGPDDSSGGQEDPASQOMARPRFT 150
Db 61 REDAGVYVCKATNGFGLSVNYTLVLDDISPGKESLGPDDSSGGQEDPASQOMARPRFT 120
QY 151 QPSKMRRRVIARPVGSSVRLKCVASGHPRPDITMMKDDQALTREPAEPRKKKWTLSLKN 210
Db 121 QPSKMRRRVIARPVGSSVRLKCVASGHPRPDITMMKDDQALTREPAEPRKKKWTLSLKN 180
QY 211 LRPEDSGKYTCRVSNRAGAINATYKVDVIQRTRSKPVLTGTHPVNTTVDFFGTTSFQCKV 270
Db 181 LRPEDSGKYTCRVSNRAGAINATYKVDVIQRTRSKPVLTGTHPVNTTVDFFGTTSFQCKV 240
QY 271 RSDVKPVIQWLKRVEYGAEGRHNSTIDVGQKFVVLPTGDVWSRPDGSYLNKPL 324
Db 241 RSDVKPVIQWLKRVEYGAEGRHNSTIDVGQKFVVLPTGDVWSRPDGSYLNKPL 294

RESULT 10

Q920C2 PRELIMINARY; PRT; 509 AA.
ID Q920C2
AC Q920C2;
DT 01-DEC-2001 (TREMBLrel. 19, Created)
DT 01-DEC-2001 (TREMBLrel. 19, Last sequence update)
DT 01-MAR-2004 (TREMBLrel. 26, Last annotation update)
DE Fibroblast growth factor receptor 5 beta/gamma (Fragment).
GN Name=Fgfr1; Synonyms=Fgfr5;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=BALB/cJ;
RX MEDLINE=21311632; PubMed=11418238;
RA Sleeman M., Fraser J.K., McDonald M., Yuan S., White D., Grandison P.,
RA Kumble K., Watson J.D., Murison J.G.;
RT "Identification of a new fibroblast growth factor receptor, FGFR5.";
RL Gene 271.171-182(2001).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=BALB/cJ;
RA Sleeman M.A., Fraser J.K., McDonald M., Yuan S., White D.,
RA Grandison P., Kumble K.D., Watson J.D., Murison J.G.;
RL Submitted (NOV-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF321302; AAL06297.1; -.
DR HSSP; P11362; 1EVT.
DR MGD; MGI:2150920; Fgfr1.
DR GO; GO:0005886; C:plasma membrane; IDA.
DR GO; GO:000515; F:protein binding; IPI.
DR GO; GO:0008285; P:negative regulation of cell proliferation; IDA.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR Pfam; PF00047; Ig_3.
DR SMART; SM00408; IGC2; 3.
DR PROSITE; PS50835; IG_LIKE; 3.
KW Receptor.
FT NON_TER 1 1
FT CHAIN <1 509 fibroblast growth factor receptor 5 beta.
FT CHAIN <1 509 fibroblast growth factor receptor 5
SQ SEQUENCE 509 AA; 54994 MW; 392A7D9568899C15 CRC64;

Query Match 87.8%; Score 1507; DB 2; Length 509;
Best Local Similarity 93.7%; Pred. No. 2.9e-108;
Matches 281; Conservative 9; Mismatches 10; Indels 0; Gaps 0;

QY 25 ARGPPKADKVPVROVARLGRTVRLQCPVEGDDPPPLTMWTKDGRTHSGWSRFRVLPQGL 84
Db 1 ARGPPRMADKVPVROVARLGRTVRLQCPVEGDDPPPLTMWTKDGRTHSGWSRFRVLPQGL 60

QY 85 KVKOVERADAGVYVCKATNGFGLSVNYTLVLDDISPGKESLGPDDSSGGQEDPASQOM 144
Db 61 KVKVEAEDAGVYVCKATNGFGLSVNYTLVLDDISPGKESLGPDDSSGGQEDPASQOM 120
QY 145 ARPRFTQPSKMRRRVIARPVGSSVRLKCVASGHPRPDITMMKDDQALTREPAEPRKKK 204
Db 121 ARPRFTQPSKMRRRVIARPVGSSVRLKCVASGHPRPDITMMKDDQTLTHLEASEHRKKW 180
QY 205 TLSLKNLRPEDSGKYTCRVSNRAGAINATYKVDVIQRTRSKPVLTGTHPVNTTVDFFGTT 264
Db 181 TLSLKNLRPEDSGKYTCRVSNKAGAINATYKVDVIQRTRSKPVLTGTHPVNTTVDFFGTT 240
QY 265 SFQCKVRSDVKPVIQWLKRVEYGAEGRHNSTIDVGQKFVVLPTGDVWSRPDGSYLNKPL 324
Db 241 SFQCKVRSDVKPVIQWLKRVEYSEGRHNSTIDVGQKFVVLPTGDVWSRPDGSYLNKPL 300

RESULT 11

Q7T2H2 PRELIMINARY; PRT; 487 AA.
ID Q7T2H2
AC Q7T2H2;
DT 01-OCT-2003 (TREMBLrel. 25, Created)
DT 01-OCT-2003 (TREMBLrel. 25, Last sequence update)
DT 01-MAR-2004 (TREMBLrel. 26, Last annotation update)
DE Fibroblast growth factor receptor-like protein precursor.
GN Name=FGFR1;
OS Gallus gallus (Chicken).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
OC Gallus.
OX NCBI_TaxID=9031;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Cartilage;
RX PubMed=12813049;
RA Trueb B., Zhuang L., Taeschler S., Wiedemann M.;
RT "Characterization of FGFR1, a Novel FGF receptor preferentially
RT expressed in skeletal tissues.";
RL J. Biol. Chem. 278:33857-33865(2003).
DR EMBL; AF535114; CAD59380.1; -.
DR GO; GO:0004872; F:receptor activity; IEA.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR Pfam; PF00047; Ig_3.
DR SMART; SM00408; IGC2; 3.
DR PROSITE; PS50835; IG_LIKE; 3.
KW Receptor; Signal.
FT SIGNAL 1 18 Potential.
FT CHAIN 19 487 fibroblast growth factor receptor-like
FT CHAIN 19 487 protein.
SQ SEQUENCE 487 AA; 54099 MW; FFD0132AD917FF94 CRC64;

Query Match 76.1%; Score 1306; DB 2; Length 487;
Best Local Similarity 75.8%; Pred. No. 9.9e-93;
Matches 238; Conservative 36; Mismatches 40; Indels 0; Gaps 0;

QY 9 LLLPPLLGAFPPEAAARGPVKMADKVPVROVARLGRTVRLQCPVEGDDPPPLTMWTKDGR 68
Db 3 LQALLLAGIVALSDSARGPRIADKVIHQSVRLGRTIKLCPVEGDDPPPLTMWTKDGR 62
QY 69 TIHSGWSRFRVLPQGLKVKOVERADAGVYVCKATNGFGLSVNYTLVLDDISPGKESLG 128
Db 63 TIHSGWTRFRILQGLKIKEVESEDACTICATNGFGSTNVNYTLVIDDTSSGKNSQT 122
QY 129 PDSSSGQEDPASQOMARPRFTQPSKMRRRVIARPVGSSVRLKCVASGHPRPDITMMKDD 188
Db 123 PEGSNGEYEDHSGKOWAQPRFTQPAKMRRIARPVGSSIRLKCVASGNRPDITWLKDN 182
QY 189 QALTREPAEPRKKKWTLSLKNLRPEDSGKYTCRVSNRAGAINATYKVDVIQRTRSKPV 248
Db 183 KPLMPHEIGENKKKKWTLSLKNLRPEDSGKYTCRVFNKVGAINATYKVEVIQRTRSKPIL 242
QY 249 TGTHPVNTTVDFFGTTSFQCKVRSDVKPVIQWLKRVEYGAEGRHNSTIDVGQKFVVLPT 308

Db 243 TGTHTPNTTVDYGGTTSFQCKVRSVDKPVIOWLKRVETGTESKYNSTIDVGQKFTVLP 302

QY 309 GDVWSRPDGSYLK 322

Db 303 GEVWSRPDGSYLK 316

RESULT 12

Q7SX76 PRELIMINARY; PRT; 483 AA.

AC Q7SX76; 07SX76;

DT 01-OCT-2003 (TREMBlrel. 25, Created)

DT 01-OCT-2003 (TREMBlrel. 25, Last sequence update)

DT 01-OCT-2004 (TREMBlrel. 28, Last annotation update)

DE FGF receptor-like protein precursor (Fibroblast growth factor receptor-like 1).

GN Name=fgfr11;

OS Brachydanio rerio (Zebrafish) (Danio rerio).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes; Cyprinidae; Danio.

OC NCBI_TaxID=7955;

OX [1]

RN SEQUENCE FROM N.A.

RP Trueb B., Zhuang L., Taeschler S., Wiedemann M.;

RA "Characterization of FGFR1, a novel FGF receptor preferentially expressed in skeletal tissues."

RT J. Biol. Chem. 278:0-0(2003).

RL [2]

RN SEQUENCE FROM N.A.

RC TISSUE=Kidney;

RX MEDLINE=22388257; PubMed=12477932;

RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G., Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D., Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K., Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F., Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L., Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E., Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C., Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J., Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H., Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W., Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A., Fahey J., Helton E., Kettelman M., Madan A., Rodriguez S., Sanchez A., Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G., Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C., Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S., Krzywinski M.I., Skalska U., Smallos D.E., Schnerch A., Schein J.E., Jones S.J., Marra M.A.;

RA "Generation and initial analysis of more than 15,000 full-length human RT and mouse cDNA sequences."

RT Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).

RL [3]

RN SEQUENCE FROM N.A.

RP TISSUE=Kidney;

RC Strausberg R.;

RA Submitted (JUN-2003) to the EMBL/GenBank/DBJ databases.

RL EMBL; AJ574916; CAE00573.1; -.

DR EMBL; BC053245; AAH53245.1; -.

DR ZFIN; ZDB-GENE-040128-2; fgfr11.

DR GO; GO:0004872; F:receptor activity; IEA.

DR InterPro; IPR007110; Ig-like.

DR InterPro; IPR003598; Ig_c2.

DR Pfam; PF00047; Ig; 3.

DR SMART; SM00408; IGC2; 3.

DR PROSITE; PS50835; IG_LIKE; 3.

KW Receptor; Signal.

FT SIGNAL 1 19 Potential.

FT CHAIN 20 483 FGF receptor-like protein.

FT SEQUENCE 483 AA; 53937 MW; 3C2B34E5D57C32C CRC64;

Query Match 69.5%; Score 1193.5; DB 2; Length 483;

Best Local Similarity 73.0%; Pred. No. 5.1e-84;

Matches 219; Conservative 33; Mismatches 47; Indels 1; Gaps 1;

QY 25 ARGPPKADKVVPROVARLGRVTRLOCPVEGDPPPLTWTKDGRTHSGWRRVLPQGL 84

Db 20 ARGPPRVAEKIAHRQTVRIQRTMKLQCPVEGDPPPLIMTKDGRNIHSGWRRVLPQGL 79

QY 85 KYQVEREDAGVYVCKATNGFSGLSVNYTLVLDLISPKESELGPDSSSGQEDPASQW 144

Db 80 RIKEVEADAGTFCIKATNGFGSVINNYTLVIDDSSAGREGARPAGETEYSTD-LTGKL 138

QY 145 ARPRFTQPSKMRRRVIAARPVGSSVRLKCVASGHPRPDITWMKDDQALTRPEAAEPRKKW 204

Db 139 VRPRFTQPAKMRKRVIAARPVGSSVRLKCTASGNPRPDIVWLKDSRPLTPBEVGEGRKKW 198

QY 205 TISLKNLRPEDSGKYTCRVSNRAGAINATYKVDVIOQTRSKPVLGTHPVNTTVDEGTT 264

Db 199 TISLKNLTPHSGKYTCRVSNRAGEINATYKVEVIOQTRNSKPLTGTHTPNTTVDYGGT 258

QY 265 SFQCKVRSVDKPVIOWLKRVETGAEGRHNSTIDVGQKFTVLPDGDVWSRPDGSYLKPL 324

Db 259 SFQCKVRSVDKPVIOWLKRVETGEGEKYNSTIEVGDHFFVLPDGDVWSRPDGSYLKLL 318

RESULT 13

Q920C3 PRELIMINARY; PRT; 438 AA.

AC Q920C3; 0920C3;

DT 01-DEC-2001 (TREMBlrel. 19, Created)

DT 01-DEC-2001 (TREMBlrel. 19, Last sequence update)

DT 01-MAR-2004 (TREMBlrel. 26, Last annotation update)

DE Fibroblast growth factor receptor 5 gamma precursor.

GN Name=Fgfr11; Synonyms=Fgfr5;

OS Mus musculus (Mouse).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

OC NCBI_TaxID=10090;

OX [1]

RN SEQUENCE FROM N.A.

RP STRAIN=BALB/cJ;

RC MEDLINE=21311632; PubMed=11418238;

RX Sleeman M., Fraser J., McDonald M., Yuan S., White D., Grandison P., Kumble K., Watson J.D., Murison J.G.;

RA "Identification of a new fibroblast growth factor receptor, FGFR5."

RT Gene 271:171-182(2001).

RL [2]

RN SEQUENCE FROM N.A.

RP STRAIN=BALB/cJ;

RC Sleeman M.A., Fraser J.K., Watson J.D., Kumble K.D., Murison J.G.;

RL Submitted (NOV-2000) to the EMBL/GenBank/DBJ databases.

RL EMBL; AF321301; AAL06296.1; -.

DR HSSP; P11362; 1EVT.

DR MGD; MGI:2150920; Fgfr11.

DR GO; GO:0005886; C:plasma membrane; IDA.

DR GO; GO:0005515; F:protein binding; IPI.

DR GO; GO:0008285; P:negative regulation of cell proliferation; IDA.

DR InterPro; IPR007110; Ig-like.

DR InterPro; IPR003598; Ig_c2.

DR Pfam; PF00047; Ig; 2.

DR SMART; SM00408; IGC2; 2.

DR PROSITE; PS50835; IG_LIKE; 2.

KW Receptor; Signal.

FT SIGNAL 1 20 Potential.

FT CHAIN 21 438 fibroblast growth factor receptor 5

FT SEQUENCE 438 AA; 46980 MW; 768D7E96126DD8AE CRC64;

Query Match 60.3%; Score 1035.5; DB 2; Length 438;

Best Local Similarity 65.1%; Pred. No. 7.7e-72;

Matches 211; Conservative 4; Mismatches 14; Indels 95; Gaps 2;

QY 1 MTPSPLLLLLPPLLGAFPPLAARGPCKMADKVVPROVARLGRVTRLOCPVEGDPPPL 60


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Db      1 MTRSPALLL-----LLLGALPSAEAR----- 22
QY      61 TWMTKDGRTIHSGWSRFRVLPGLKVKQVEREDAGVYVCKATNGFGLSVNNTLVLLDDI 120
Db      23 -----DDI 25
QY      121 SPGESLGPSSSGQEDPASQOWARPRFTOPSKMRRRIARPVGSSVRLKCVASGHPRP 180
Db      26 SPGESPGPGSSSGQEDPASQOWARPRFTOPSKMRRRIARPVGSSVRLKCVASGHPRP 85
QY      181 DITWMKDDQALTRPEAAEPRKKKWTLSLKNLRPEDSGKYTCRVSNRAGAINATYKVDVIQ 240
Db      86 DIMMKDDQTLTHLEASEHRKKKWTLSLKNLRPEDSGKYTCRVSNKAGAINATYKVDVIQ 145
QY      241 RTRSKPVLGTGHPVNTTVDFGCTTSFQCKVRSDVKPVIQWLKRVEYGAEGRNSTIDVGG 300
Db      146 RTRSKPVLGTGHPVNTTVDFGCTTSFQCKVRSDVKPVIQWLKRVEYGAEGRNSTIDVGG 205
QY      301 QKFVVLPTGDVWSRPDGSYLNKPL 324
Db      206 QKFVVLPTGDVWSRPDGSYLNKLL 229

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RESULT 14

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O6PJN1 PRELIMINARY; PRT; 350 AA.
ID Q6PJN1
AC Q6PJN1;
DT 05-JUL-2004 (TREMBlrel. 27, Created)
DT 05-JUL-2004 (TREMBlrel. 27, last sequence update)
DT 05-JUL-2004 (TREMBlrel. 27, last annotation update)
DE FGFR1 protein.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Kidney;
RX MEDLINE=22388257; PubMed=12477932;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shennan C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Garcia A.M., Gay L.J., Hulik S.W.,
RA Richards S., Worley K.C., Hale S., Sodergren E.J., Lu X., Gibbs R.A.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahy J., Helton E., Kettelman M., Madan A., Rodriguez S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
RA Krzywinski M.I., Skalska U., Smailus D.E., Schnerch A., Schein J.E.,
RA Jones S.J., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE=Kidney;
RA Strausberg R.;
RL Submitted (SEP-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC013955; AAH13955.1; -.
DR InterPro; IPR003599; Ig.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR Pfam; PF00047; Ig; 2.
DR SMART; SM00409; Ig; 2.
DR SMART; SM00408; IGC2; 2.
DR PROSITE; PS00835; IGLIKE; 2.
SQ SEQUENCE 350 AA; 37962 MW; C92A18DB4374A831 CRC64;

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Query Match 52.1%; Score 894; DB 2; Length 350;
Best Local Similarity 99.4%; Pred. No. 5.3e-61;
Matches 169; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 155 MRRVIRAPVGSSVRLKCVASGHPRPDITWMKDDQALTRPEAAEPRKKKWTLSLKNLRPE 214
Db 1 MRRVIRAPVGSSVRLKCVASGHPRPDITWMKDDQALTRPEAAEPRKKKWTLSLKNLRPE 60
QY 215 DSGKYTCRVSNRAGAINATYKVDVIQRTSKPVLGTGHPVNTTVDFGCTTSFQCKVRSDV 274
Db 61 DSGKYTCRVSNRAGAINATYKVDVIQRTSKPVLGTGHPVNTTVDFGCTTSFQCKVRSDV 120
QY 275 KPVIOWLKRVEYGAEGRNSTIDVGGQKFVVLPTGDVWSRPDGSYLNKPL 324
Db 121 KPVIOWLKRVEYGAEGRNSTIDVGGQKFVVLPTGDVWSRPDGSYLNKLL 170

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RESULT 15

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AAH13955 PRELIMINARY; PRT; 350 AA.
ID AAH13955
AC AAH13955;
DT 02-MAR-2004 (TREMBlrel. 27, Created)
DT 02-MAR-2004 (TREMBlrel. 27, last sequence update)
DT 02-MAR-2004 (TREMBlrel. 27, last annotation update)
DE FGFR1 protein.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primata; Catarrhini; Homnidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Kidney;
RX MEDLINE=22388257; PubMed=12477932;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shennan C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Garcia A.M., Gay L.J., Hulik S.W.,
RA Richards S., Worley K.C., Hale S., Sodergren E.J., Lu X., Gibbs R.A.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahy J., Helton E., Kettelman M., Madan A., Rodriguez S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
RA Krzywinski M.I., Skalska U., Smailus D.E., Schnerch A., Schein J.E.,
RA Jones S.J., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE=Kidney;
RA Strausberg R.;
RL Submitted (SEP-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC013955; AAH13955.1; -.
SQ SEQUENCE 350 AA; 37962 MW; C92A18DB4374A831 CRC64;

Query Match 52.1%; Score 894; DB 2; Length 350;
Best Local Similarity 99.4%; Pred. No. 5.3e-61;
Matches 169; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 155 MRRVIRAPVGSSVRLKCVASGHPRPDITWMKDDQALTRPEAAEPRKKKWTLSLKNLRPE 214
Db 1 MRRVIRAPVGSSVRLKCVASGHPRPDITWMKDDQALTRPEAAEPRKKKWTLSLKNLRPE 60
QY 215 DSGKYTCRVSNRAGAINATYKVDVIQRTSKPVLGTGHPVNTTVDFGCTTSFQCKVRSDV 274
Db 61 DSGKYTCRVSNRAGAINATYKVDVIQRTSKPVLGTGHPVNTTVDFGCTTSFQCKVRSDV 120

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